EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	179	(virtual adj circuit) and (path adj3 information)	USPAT	OR	ON	2002/11/12 11:52
S2	15	(virtual adj circuit) and (path adj3 information) and (server) and (subscriber or client or user) and "709"/$.ccls.	USPAT	OR	ON	2002/11/06 14:24
S3	19	(virtual adj circuit) and (path adj3 information) and (server) and (subscriber or client or user) and (VPI or VCI)	USPAT	OR	ON	2002/11/06 14:33
S4	117	"trusted" adj system	USPAT	OR	ON	2002/11/06 14:34
S5	2	("trusted" adj system) and (path adj3 information)	USPAT	OR	ON	2002/11/06 14:36
S6	21	(path adj3 information) and (security) and (subscriber or user or client) and (vci or vpi)	USPAT	OR	ON	2002/11/06 14:36
S7	67	(virtual adj circuit) and (path adj3 information) and (server) and (subscriber or client or user)	USPAT	OR	ON	2002/11/06 14:38
S8	57	(virtual adj circuit) and (path adj3 information) and (vci or vpi)	USPAT	OR	ON	2002/11/06 14:53
S9	149	(access adj3 server) and (path adj3 information)	USPAT	OR	ON	2002/11/06 14:53
S10	12	(access adj3 server) and (path adj3 information) and (vpi or vci)	USPAT	OR	ON	2002/11/06 15:10
S11	14	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit)	USPAT	OR	ON	2002/11/06 15:34
S12	1	("6069895").PN.	USPAT; USOCR	OR	OFF	2002/11/06 15:24
S13	1	("6252878").PN.	USPAT; USOCR	OR	OFF	2002/11/06 15:24
S14	1	"5905781".PN.	USPAT	OR	OFF	2002/11/06 15:24
S15	1	"5867666".PN.	USPAT	OR	OFF	2002/11/06 15:27
S16	1	"5864542".PN.	USPAT	OR	OFF	2002/11/06 15:27
S17	1	"5859550".PN.	USPAT	OR	OFF	2002/11/06 15:28
S18	1	"5838994".PN.	USPAT	OR	OFF	2002/11/06 15:28
S19	1	"5838915".PN.	USPAT	OR	OFF	2002/11/06 15:28
S20	1	"5835725".PN.	USPAT	OR	OFF	2002/11/06 15:28
S21	1	"5835494".PN.	USPAT	OR	OFF	2002/11/06 15:28
S22	1	"5835036".PN.	USPAT	OR	OFF	2002/11/06 15:29
S23	1	"5822383".PN.	USPAT	OR	OFF	2002/11/06 15:29

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S24	1	"5740171".PN.	USPAT	OR	OFF	2002/11/06 15:29
S25	1	"5737526".PN.	USPAT	OR	OFF	2002/11/06 15:29
S26	1	"5740171".PN.	USPAT	OR	OFF	2002/11/06 15:29
S27	1	"5740176".PN.	USPAT	OR	OFF	2002/11/06 15:29
S28	1	"5742604".PN.	USPAT	OR	OFF	2002/11/06 15:29
S29	1	"5742604".PN.	USPAT	OR	OFF	2002/11/06 15:30
S30	1	"5742649".PN.	USPAT	OR	OFF	2002/11/06 15:30
S31	1	"5756280".PN.	USPAT	OR	OFF	2002/11/06 15:30
S32	1	"5764641".PN.	USPAT	OR	OFF	2002/11/06 15:32
S33	1	"5770950".PN.	USPAT	OR	OFF	2002/11/06 15:32
S34	1	"5787255".PN.	USPAT	OR	OFF	2002/11/06 15:32
S35	1	"5812618".PN.	USPAT	OR	OFF	2002/11/06 15:32
S36	1	"5796732".PN.	USPAT	OR	OFF	2002/11/06 15:32
S37	1	"5570360".PN.	USPAT	OR	OFF	2002/11/06 15:32
S38	1	"5631897".PN.	USPAT	OR	OFF	2002/11/06 15:33
S39	1	"5461640".PN.	USPAT	OR	OFF	2002/11/06 15:33
S40	1	"5444703".PN.	USPAT	OR	OFF	2002/11/06 15:33
S41	1	"5509006".PN.	USPAT	OR	OFF	2002/11/06 15:33
S42	16	(access adj server) and (vpi or vci) and (atm)	USPAT	OR	ON	2002/11/06 15:39
S43	31	(access adj server) and (path adj information)	USPAT	OR	ON	2002/11/06 15:46
S44	3	(access adj server) and (subscriber with (virtual adj circuit))	USPAT	OR	ON	2002/11/06 15:49
S45	7	(dslam) and (subscriber with (virtual adj circuit))	USPAT	OR	ON	2002/11/06 15:55
S46	1	(dslam) and (subscriber with (virtual adj circuit)) and (access$3 adj server)	USPAT	OR	ON	2002/11/06 16:04
S47	0	(dslam) and (subscriber same (path adj information))	USPAT	OR	ON	2002/11/06 16:05
S48	1	(dslam) and (subscriber) and (path adj information)	USPAT	OR	ON	2002/11/06 16:06
S49	6	(dslam) and (vci or vpi)	USPAT	OR	ON	2002/11/06 16:11
S50	25	(dsl) and (vci or vpi)	USPAT	OR	ON	2002/11/06 16:14
S51	11	(subscriber) and (virtual adj circuit) and (vci or vpi) and (path adj information)	USPAT	OR	ON	2002/11/06 16:24
S52	29	(subscriber) and (virtual adj circuit) and (path adj information)	USPAT	OR	ON	2002/11/06 16:31

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S53	2392	access$3 adj server	USPAT	OR	ON	2002/11/06 16:31
S54	521	(access$3 adj server) and (subscriber)	USPAT	OR	ON	2002/11/06 16:31
S55	5	(access$3 adj server) and (subscriber) and (index$3 same (path))	USPAT	OR	ON	2002/11/06 16:37
S56	106	(access$3 adj server) and (subscriber) and (atm) and (security)	USPAT	OR	ON	2002/11/06 16:38
S57	29	(access$3 adj server) and (subscriber) and (atm) and (security) and (path with information)	USPAT	OR	ON	2002/11/06 16:57
S58	29	(access$3 adj server) and (subscriber) and (atm or vci or vpi) and (security) and (path with information)	USPAT	OR	ON	2002/11/06 16:59
S59	58	(access$3 adj server) and (atm or vci or vpi) and (security) and (path with information)	USPAT	OR	ON	2002/11/06 17:00
S60	0	(access$3 adj server) and (atm or vci or vpi) and (subscriber) and (pirat$3) and (path with information)	USPAT	OR	ON	2002/11/06 17:00
S61	0	(access$3 adj server) and (atm or vci or vpi) and (subscriber) and (pirat$3)	USPAT	OR	ON	2002/11/06 17:01
S62	16	(access$3 adj server) and (subscriber) and (pirat$3)	USPAT	OR	ON	2002/11/06 17:04
S63	20	(server) and (subscriber or client or user) and (virtual adj circuit) and (path adj information)	USPAT	OR	ON	2002/11/06 17:07
S64	16	(server) and (subscriber or client or user) and (virtual adj circuit) and (path adj information) and (atm or vci or vpi)	USPAT	OR	ON	2002/11/06 17:11
S65	3	(subscriber or client or user) and (virtual adj circuit) and (path adj information) and (atm or vci or vpi) and (line adj card)	USPAT	OR	ON	2002/11/07 10:20
S66	204	(subscriber or client or user) and (path adj information) and (atm or (virtual adj2 identifier))	USPAT	OR	ON	2002/11/07 10:21
S67	3	(subscriber or client or user) and (path adj information) and (atm or (virtual adj2 identifier)) and (access adj server)	USPAT	OR	ON	2002/11/07 10:28

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S68	22	(subscriber or client or user) and (path adj information) and (atm or (virtual adj2 identifier)) and (authenticat$3)	USPAT	OR	ON	2002/11/07 10:36
S69	92	((subscriber or client or user) adj5 information) and (path adj information) and (atm or (virtual adj2 identifier))	USPAT	OR	ON	2002/11/07 16:15
S70	1	"5680396".PN.	USPAT	OR	OFF	2002/11/07 13:13
S71	1	"5539884".PN.	USPAT	OR	OFF	2002/11/07 13:13
S72	1	"5265091".PN.	USPAT	OR	OFF	2002/11/07 13:18
S73	1	"5440547".PN.	USPAT	OR	OFF	2002/11/07 13:18
S74	1	"5440551".PN.	USPAT	OR	OFF	2002/11/07 13:18
S75	1	"5490141".PN.	USPAT	OR	OFF	2002/11/07 13:19
S76	28	(port adj card) and ((vpi or vci) or (vitual adj3 identifier))	USPAT	OR	ON	2002/11/08 14:16
S77	0	(port adj card) and ((vpi or vci) or (vitual adj3 identifier)) and (access$2 adj server)	USPAT	OR	ON	2002/11/07 16:32
S78	12	(port adj card) and (access$2 adj server)	USPAT	OR	ON	2002/11/07 16:34
S79	4	(port adj card) and (access$2 adj server) and atm	USPAT	OR	ON	2002/11/07 16:37
S80	6	(port adj card) and authenticat$3 and atm	USPAT	OR	ON	2002/11/07 16:40
S81	4	(port adj card) and (path adj information) and atm	USPAT	OR	ON	2002/11/07 16:41
S82	28	(port adj card) and ((vpi or vci))	USPAT	OR	ON	2002/11/07 16:43
S83	32	(port adj card) and (path adj3 (identifier or information))	USPAT	OR	ON	2002/11/13 14:22
S84	1	("5539884").PN.	USPAT; USOCR	OR	OFF	2002/11/12 11:49
S85	2	(("6396838") or ("6400716")).PN.	USPAT; USOCR	OR	OFF	2002/11/12 11:51
S86	10	(virtual adj circuit) and (path adj3 information) and ((ftp or radius) with protocol)	USPAT	OR	ON	2002/11/12 11:55
S87	0	(virtual adj circuit) and (path adj3 information) and ((radius) with protocol)	USPAT	OR	ON	2002/11/12 11:56
S88	5	(virtual adj circuit) and ((radius) with protocol)	USPAT	OR	ON	2002/11/12 11:57
S89	0	(virtual adj circuit) and ((radius and ftp) with protocol)	USPAT	OR	ON	2002/11/12 11:57

EAST Search History

S90	1	("5539884").PN.	USPAT; USOCR	OR	OFF	2002/11/13 14:48
S91	5	(("6252878") or ("5539884") or ("6396838") or ("6084892") or ("6400716")).PN.	USPAT; USOCR	OR	OFF	2002/11/13 14:48
S92	7	(("9604729") or ("0677941")).PN.	USOCR; EPO; JPO; DERWENT	OR	OFF	2003/03/26 14:55
S93	6	(("5115427") or ("5649108") or ("5239537") or ("6069895") or ("5617417") or ("5588003")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:19
S94	1	"5987521".PN.	USPAT	OR	OFF	2003/03/27 10:50
S95	1	"5649108".PN.	USPAT	OR	OFF	2003/03/27 10:51
S96	1	"5633866".PN.	USPAT	OR	OFF	2003/03/27 10:51
S97	1	"4905233".PN.	USPAT	OR	OFF	2003/03/27 10:52
S98	1	"5649108".PN.	USPAT	OR	OFF	2003/03/27 10:52
S99	1	"5452294".PN.	USPAT	OR	OFF	2003/03/27 10:52
S100	1	"4931941".PN.	USPAT	OR	OFF	2003/03/27 10:53
S101	1	("6084892").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 11:01
S102	1	"5995618".PN.	USPAT	OR	OFF	2003/03/27 11:01
S103	1	"5982870".PN.	USPAT	OR	OFF	2003/03/27 11:03
S104	1	"5978450".PN.	USPAT	OR	OFF	2003/03/27 11:03
S105	1	"5933490".PN.	USPAT	OR	OFF	2003/03/27 11:03
S106	1	"5790548".PN.	USPAT	OR	OFF	2003/03/27 11:04
S107	1	"5661791".PN.	USPAT	OR	OFF	2003/03/27 11:04
S108	1	"5255315".PN.	USPAT	OR	OFF	2003/03/27 11:04
S109	1	("6084892").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 14:45
S110	0	(US01/05439).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:19

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S111	1	("0105439").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:20
S112	0	(PCT/US01/05439).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:20
S113	920	(subscriber adj3 information) and ((path or interface) adj3 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 10:33
S114	95	((subscriber adj3 information) and ((path or interface) adj3 information)) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 10:34
S115	244	((subsriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 11:14
S116	75	(((subsriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 13:11
S117	1	("6252878").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/06 10:55
S118	1	"6069895".PN.	USPAT	OR	OFF	2003/10/06 10:56
S119	1	"5905781".PN.	USPAT	OR	OFF	2003/10/06 10:57
S120	1	"5867666".PN.	USPAT	OR	OFF	2003/10/06 10:59
S121	1	"5864542".PN.	USPAT	OR	OFF	2003/10/06 11:00
S122	1	"5859550".PN.	USPAT	OR	OFF	2003/10/06 11:00
S123	1	"5852655".PN.	USPAT	OR	OFF	2003/10/06 11:01
S124	1	"5838994".PN.	USPAT	OR	OFF	2003/10/06 11:02
S125	1	"5838915".PN.	USPAT	OR	OFF	2003/10/06 11:02
S126	1	"5835725".PN.	USPAT	OR	OFF	2003/10/06 11:02
S127	1	"5822383".PN.	USPAT	OR	OFF	2003/10/06 11:02
S128	1	"5812618".PN.	USPAT	OR	OFF	2003/10/06 11:12

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S129	1	"5796732".PN.	USPAT	OR	OFF	2003/10/06 11:13
S130	1	"5787070".PN.	USPAT	OR	OFF	2003/10/06 11:13
S131	1	"5799017".PN.	USPAT	OR	OFF	2003/10/06 11:14
S132	1	"5546379".PN.	USPAT	OR	OFF	2003/10/06 11:14
S133	1	"5495483".PN.	USPAT	OR	OFF	2003/10/06 13:05
S134	1	"5477263".PN.	USPAT	OR	OFF	2003/10/06 13:05
S135	1	"5495483".PN.	USPAT	OR	OFF	2003/10/06 13:06
S136	236	(((subsriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)) and switch$3	US-PGPUB; USPAT	OR	ON	2003/10/06 13:12
S137	62	(((subsriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)) and (access$3 adj3 server)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:18
S138	16139	((path or interfac$3) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:19
S139	31	(stor$3 near4 ((path or interfac$3) adj2 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:40
S140	1	"4677609".PN.	USPAT	OR	OFF	2003/10/06 13:35
S141	1	"4656624".PN.	USPAT	OR	OFF	2003/10/06 13:35
S142	371	(switch) and (stor$3 near5 ((client or user or subscriber) adj2 information)) and ((path or interfac$3) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:41
S143	18	((switch) and (stor$3 near5 ((client or user or subscriber) adj2 information)) and ((path or interfac$3) adj2 information)) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:47
S144	84	((switch) and (stor$3 near5 ((client or user or subscriber) adj2 information)) and ((path or interfac$3) adj2 information)) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 14:07

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S145	2020	((path or interfac$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:08
S146	274	((path or interfac$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security near5 check$3)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:13
S147	12	(((path or interfac$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security near5 check$3)) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:09
S148	53	((path or interfac$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security near5 check$3) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 14:38
S149	1	"6320875".PN.	USPAT	OR	OFF	2003/10/06 14:19
S150	1	"6103713".PN.	USPAT	OR	OFF	2003/10/06 14:19
S151	1	"6034963".PN.	USPAT	OR	OFF	2003/10/06 14:19
S152	1	"5889777".PN.	USPAT	OR	OFF	2003/10/06 14:19
S153	1	"5440551".PN.	USPAT	OR	OFF	2003/10/06 14:20
S154	23	(translat$3 near3 table) and ((path or interfac$3) adj2 information) and (virtual adj2 circuit) and ((client or user or subscriber) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:46
S155	104	((map$4 or compar$3) same (((path or interfac$3) adj2 information) and ((user or client or subscriber) adj2 information)))	US-PGPUB; USPAT	OR	ON	2003/10/06 14:52
S156	105	((verif$5 or check$3) near4 ((path or interfac$3) adj2 information))	US-PGPUB; USPAT	OR	ON	2003/10/06 14:53
S157	2	(((verif$5 or check$3) near4 ((path or interfac$3) adj2 information))) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:56
S158	27	(((verif$5 or check$3) near4 ((path or interfac$3) adj2 information))) and ((client or user or subscriber) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:03
S159	208	(interfac$3 adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:03

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S160	23	((interfac$3 adj2 information) and (virtual adj2 circuit)) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:08
S161	163	(path adj2 information) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:09
S162	17	((path adj2 information) and (subscriber adj2 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:12
S163	29	((path adj2 information) and (subscriber adj2 information)) and ("709"/$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:03
S164	1	("5115427").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/06 16:05
S165	13	((customer adj2 information)) and (path adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:07
S166	161	((customer adj2 information)) and (path adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:17
S167	21	(((customer adj2 information)) and (path adj2 information)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:14
S168	33	(((customer adj2 information)) and (path adj2 information)) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:14
S169	163	((subscriber adj2 information)) and (path adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:32
S170	62	(((subscriber adj2 information)) and (path adj2 information)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:17
S171	0	(compar$3 with (((path or interfac$3) adj2 information) and (virtual adj2 circuit)))	US-PGPUB; USPAT	OR	ON	2003/10/06 16:34
S172	384	((((path or interfac$3) adj2 information) and (virtual adj2 circuit)))	US-PGPUB; USPAT	OR	ON	2003/10/06 16:34
S173	236	(((((path or interfac$3) adj2 information) and (virtual adj2 circuit)))) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:34
S174	32	(((((path or interfac$3) adj2 information) and (virtual adj2 circuit)))) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:35
S175	36	(((((path or interfac$3) adj2 information) and (virtual adj2 circuit)))) and (customer adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:39

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S176	208	(interface adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:30
S177	110	((interface adj2 information) and (virtual adj2 circuit)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:40
S178	92	(((interface adj2 information) and (virtual adj2 circuit)) and "370"/$.ccls.) and table	US-PGPUB; USPAT	OR	ON	2003/10/06 16:40
S179	22	(((interface adj2 information) and (virtual adj2 circuit)) and "370"/$.ccls.) and (switch$3 near3 table)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:43
S180	106	(((interface adj2 information) and (virtual adj2 circuit)) and "370"/$.ccls.) and (port or module or line)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:43
S181	84	((((interface adj2 information) and (virtual adj2 circuit)) and "370"/$.ccls.) and (port or module or line)) and (customer or subscriber)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:24
S182	1	"6529479".PN.	USPAT	OR	OFF	2003/10/06 16:55
S183	1	"5930238".PN.	USPAT	OR	OFF	2003/10/06 17:19
S184	1	"6097722".PN.	USPAT	OR	OFF	2003/10/06 17:19
S185	1	"6104749".PN.	USPAT	OR	OFF	2003/10/06 17:19
S186	1	"6252877".PN.	USPAT	OR	OFF	2003/10/06 17:20
S187	1	"6314102".PN.	USPAT	OR	OFF	2003/10/06 17:21
S188	1	"6385203".PN.	USPAT	OR	OFF	2003/10/06 17:22
S189	1	"6407997".PN.	USPAT	OR	OFF	2003/10/06 17:23
S190	1	"6480487".PN.	USPAT	OR	OFF	2003/10/06 17:23
S191	1	"5699362".PN.	USPAT	OR	OFF	2003/10/06 17:23
S192	1	"5673290".PN.	USPAT	OR	OFF	2003/10/06 17:23
S193	49	((((interface adj2 information) and (virtual adj2 circuit)) and "370"/$.ccls.) and (port or module or line)) and (security)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:24

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S194	39	((interface adj2 information) and (virtual adj2 circuit)) and ((customer or subscriber) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:27
S195	26	((interface adj2 information) and (virtual adj2 circuit)) and (access adj2 server)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:28
S196	199	(path adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:30
S197	142	(path adj2 information) and (virtual adj2 circuit) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 17:30
S198	85	((path adj2 information) and (virtual adj2 circuit) and "370"/$.ccls.) and (slot or module)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:43
S199	1	"5627822".PN.	USPAT	OR	OFF	2003/10/06 17:32
S200	1	"5600638".PN.	USPAT	OR	OFF	2003/10/06 17:32
S201	1	"5559959".PN.	USPAT	OR	OFF	2003/10/06 17:32
S202	1	"5457678".PN.	USPAT	OR	OFF	2003/10/06 17:32
S203	34	((path adj2 information) and (virtual adj2 circuit) and "370"/$.ccls.) and (user adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:45
S204	17	((path adj2 information) and (virtual adj2 circuit) and "370"/$.ccls.) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:45
S205	13	((path adj2 information) and (virtual adj2 circuit) and "370"/$.ccls.) and (customer adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:48
S206	3457	(interfac$3 adj2 information) and (user adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:49
S207	71	((interfac$3 adj2 information) and (user adj2 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 18:07
S208	1	"6181715".PN.	USPAT	OR	OFF	2003/10/06 17:52
S209	1	"6091722".PN.	USPAT	OR	OFF	2003/10/06 17:52
S210	1	"6084873".PN.	USPAT	OR	OFF	2003/10/06 17:53
S211	1	"6081517".PN.	USPAT	OR	OFF	2003/10/06 17:53
S212	1	"6075784".PN.	USPAT	OR	OFF	2003/10/06 17:53

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S213	1	"5999598".PN.	USPAT	OR	OFF	2003/10/06 17:54
S214	1	"5999565".PN.	USPAT	OR	OFF	2003/10/06 17:54
S215	1	"5978390".PN.	USPAT	OR	OFF	2003/10/06 17:54
S216	1	"5768351".PN.	USPAT	OR	OFF	2003/10/06 18:04
S217	1	"5828666".PN.	USPAT	OR	OFF	2003/10/06 18:05
S218	1	"5838682".PN.	USPAT	OR	OFF	2003/10/06 18:05
S219	1	"5841840".PN.	USPAT	OR	OFF	2003/10/06 18:06
S220	1	"5864747".PN.	USPAT	OR	OFF	2003/10/06 18:06
S221	1	"5864747".PN.	USPAT	OR	OFF	2003/10/06 18:06
S222	1	"5940479".PN.	USPAT	OR	OFF	2003/10/06 18:06
S223	1329	((path or interfac$3) adj2 information) and (stor$3 with ((user or subscriber or customer) adj2 information))	US-PGPUB; USPAT	OR	ON	2003/10/06 18:08
S224	21	(((path or interfac$3) adj2 information) and (stor$3 with ((user or subscriber or customer) adj2 information))) and (virtual adj2 circuit) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 18:14
S225	8	renucci.in.	US-PGPUB; USPAT	OR	ON	2003/10/06 18:14
S226	1	"5764641".PN.	USPAT	OR	OFF	2003/10/06 18:24
S227	114	(((path or interfac$3) adj2 information) and (stor$3 with ((user or subscriber or customer) adj2 information))) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:05
S228	5130	((path or interfac$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 10:06
S229	3	(((path or interfac$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)) and 370/403.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:10

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S230	479	(((path or interfac$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:12
S231	1	("5588003").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 10:11
S232	96	(((path or interfac$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)) and (slot) and port and module and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:29
S233	59	(dslam or grandslam) and (information near5 table)	US-PGPUB; USPAT	OR	ON	2003/10/07 10:45
S234	0	"0113618"	EPO; JPO	OR	ON	2003/10/07 10:43
S235	1	("0113618").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 10:44
S236	0	("0113618").PN.	USOCR; EPO; JPO	OR	OFF	2003/10/07 10:44
S237	0	("wo113618").PN.	USOCR; EPO; JPO	OR	OFF	2003/10/07 10:44
S238	0	("wo113593").PN.	USOCR; EPO; JPO	OR	OFF	2003/10/07 10:45
S239	181	(dslam or grandslam) and ((customer or subscriber) near3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 11:08
S240	33	(dslam or grandslam) and ((customer or subscriber) near3 information) and ((path or interfac$3) near3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 11:02
S241	1	"6259708".PN.	USPAT	OR	OFF	2003/10/07 10:48
S242	1	"6222829".PN.	USPAT	OR	OFF	2003/10/07 10:49
S243	1	"6181715".PN.	USPAT	OR	OFF	2003/10/07 10:49
S244	1	"6130879".PN.	USPAT	OR	OFF	2003/10/07 10:49
S245	1	"6125117".PN.	USPAT	OR	OFF	2003/10/07 10:50
S246	1	"6118780".PN.	USPAT	OR	OFF	2003/10/07 10:51
S247	1	"6118780".PN.	USPAT	OR	OFF	2003/10/07 10:54

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S248	1	"6091722".PN.	USPAT	OR	OFF	2003/10/07 10:54
S249	1	"6084873".PN.	USPAT	OR	OFF	2003/10/07 10:54
S250	1	"6081517".PN.	USPAT	OR	OFF	2003/10/07 10:54
S251	1	"6081517".PN.	USPAT	OR	OFF	2003/10/07 10:56
S252	1	"6075784".PN.	USPAT	OR	OFF	2003/10/07 10:57
S253	1	"5999598".PN.	USPAT	OR	OFF	2003/10/07 10:57
S254	1	"5999565".PN.	USPAT	OR	OFF	2003/10/07 10:57
S255	1	"5974043".PN.	USPAT	OR	OFF	2003/10/07 10:58
S256	1	"5949763".PN.	USPAT	OR	OFF	2003/10/07 10:58
S257	1	"5905781".PN.	USPAT	OR	OFF	2003/10/07 11:01
S258	1	"5848150".PN.	USPAT	OR	OFF	2003/10/07 11:02
S259	125	(dslam or grandslam) and (authenticat$3 or authoriz$3)	US-PGPUB; USPAT	OR	ON	2003/10/07 12:53
S260	53	((dslam or grandslam) and (authenticat$3 or authoriz$3)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 12:50
S261	70	((dslam or grandslam) and (identif$5 near5 (customer or subscriber or client or user))) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 11:14
S262	41	((dslam or grandslam) and (identif$5 near5 (customer or subscriber or client or user))) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 11:14
S263	1	"6219792".PN.	USPAT	OR	OFF	2003/10/07 11:17
S264	1	"6212561".PN.	USPAT	OR	OFF	2003/10/07 11:18
S265	1	"6092724".PN.	USPAT	OR	OFF	2003/10/07 11:18
S266	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 11:18
S267	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 11:18

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S268	1	"5898780".PN.	USPAT	OR	OFF	2003/10/07 11:19
S269	1	"5864683".PN.	USPAT	OR	OFF	2003/10/07 11:19
S270	1	"5841120".PN.	USPAT	OR	OFF	2003/10/07 11:20
S271	1	"4897874".PN.	USPAT	OR	OFF	2003/10/07 11:20
S272	1	"6052803".PN.	USPAT	OR	OFF	2003/10/07 11:33
S273	1	"5958016".PN.	USPAT	OR	OFF	2003/10/07 11:38
S274	1	"5898780".PN.	USPAT	OR	OFF	2003/10/07 11:38
S275	1	"5857074".PN.	USPAT	OR	OFF	2003/10/07 11:39
S276	1	"5845070".PN.	USPAT	OR	OFF	2003/10/07 11:39
S277	1	"5835727".PN.	USPAT	OR	OFF	2003/10/07 11:40
S278	1	"5835036".PN.	USPAT	OR	OFF	2003/10/07 11:42
S279	1	"5793763".PN.	USPAT	OR	OFF	2003/10/07 11:42
S280	1	"5752242".PN.	USPAT	OR	OFF	2003/10/07 11:42
S281	1	"5752242".PN.	USPAT	OR	OFF	2003/10/07 11:42
S282	1	"5659542".PN.	USPAT	OR	OFF	2003/10/07 11:42
S283	1	"5691997".PN.	USPAT	OR	OFF	2003/10/07 11:44
S284	1	"5659542".PN.	USPAT	OR	OFF	2003/10/07 11:44
S285	1	"5440635".PN.	USPAT	OR	OFF	2003/10/07 11:44
S286	1	"5421006".PN.	USPAT	OR	OFF	2003/10/07 11:44
S287	1	"5319644".PN.	USPAT	OR	OFF	2003/10/07 11:45
S288	1	"5319644".PN.	USPAT	OR	OFF	2003/10/07 11:46
S289	1	"5241599".PN.	USPAT	OR	OFF	2003/10/07 11:46

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S290	1	"4962532".PN.	USPAT	OR	OFF	2003/10/07 11:46
S291	1	"4922486".PN.	USPAT	OR	OFF	2003/10/07 11:46
S292	1	"5835727".PN.	USPAT	OR	OFF	2003/10/07 11:47
S293	43	((dslam or grandslam) and (authenticat$3 or authoriz$3)) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 12:50
S294	32	(dslam or grandslam) and (authenticat$3 or authoriz$3) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/07 12:54
S295	125	(dslam or grandslam) and (authenticat$3 or authoriz$3)	US-PGPUB; USPAT	OR	ON	2003/10/07 12:54
S296	1	"6141687".PN.	USPAT	OR	OFF	2003/10/07 12:57
S297	1	"6119160".PN.	USPAT	OR	OFF	2003/10/07 12:57
S298	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 12:57
S299	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 12:58
S300	1	"6047376".PN.	USPAT	OR	OFF	2003/10/07 12:58
S301	1	"6044155".PN.	USPAT	OR	OFF	2003/10/07 13:00
S302	1	"6021496".PN.	USPAT	OR	OFF	2003/10/07 13:00
S303	1	"6011910".PN.	USPAT	OR	OFF	2003/10/07 13:01
S304	1	"6006334".PN.	USPAT	OR	OFF	2003/10/07 13:02
S305	1	"6006334".PN.	USPAT	OR	OFF	2003/10/07 13:02
S306	1	"5991810".PN.	USPAT	OR	OFF	2003/10/07 13:02
S307	1	"5699521".PN.	USPAT	OR	OFF	2003/10/07 13:02
S308	1	"5684950".PN.	USPAT	OR	OFF	2003/10/07 13:03
S309	162	(dslam or grandslam) and (identif$5 near5 (customer or subscriber or client or user))	US-PGPUB; USPAT	OR	ON	2003/10/07 13:12
S310	1	"6381246".PN.	USPAT	OR	OFF	2003/10/07 13:10

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S311	1	"6345056".PN.	USPAT	OR	OFF	2003/10/07 13:10
S312	1	"6282191".PN.	USPAT	OR	OFF	2003/10/07 13:10
S313	1	"6282191".PN.	USPAT	OR	OFF	2003/10/07 13:11
S314	1	"6169735".PN.	USPAT	OR	OFF	2003/10/07 13:11
S315	1	"5917814".PN.	USPAT	OR	OFF	2003/10/07 13:11
S316	66	(dslam or grandslam) and ((verif$5 or check$3) near5 (user or client or subscriber or customer))	US-PGPUB; USPAT	OR	ON	2003/10/07 13:15
S317	143	(secure same access).ti.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:15
S318	1	((secure same access).ti.) and (dslam or grandslam)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:18
S319	2	((secure same access).ti.) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:19
S320	22	((secure same access).ti.) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:29
S321	57	((secure same access).ti.) and (subscriber or customer)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:36
S322	125	((secure same access).ti.) and (interfac$3 or path or port or module or slot)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:37
S323	123	((secure same access).ti.) and (interfac$3 or path or port or module)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:37
S324	108	((secure same access).ti.) and (interfac$3 or path)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:37
S325	46	((secure same access).ti.) and (path)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:45
S326	9	((secure same access).ti.) and (port) and (slot)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:47
S327	5174	secure near3 access	US-PGPUB; USPAT	OR	ON	2003/10/07 13:47
S328	14	(secure near3 access) and (dslam or grandslam)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:51
S329	578	(secure near3 access) and ((path or interfac$3) adj3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:52
S330	242	((secure near3 access) and ((path or interfac$3) adj3 information)) and ((customer or subscriber) adj3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:52

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S331	10	(((secure near3 access) and ((path or interfac$3) adj3 information)) and ((customer or subscriber) adj3 information)) and "370"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:55
S332	41	(((secure near3 access) and ((path or interfac$3) adj3 information)) and ((customer or subscriber) adj3 information)) and "709"/$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:59
S333	15	(((secure near3 access) and ((path or interfac$3) adj3 information)) and ((customer or subscriber) adj3 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/07 14:18
S334	9	lidinsky.in.	US-PGPUB; USPAT	OR	ON	2003/10/07 14:21
S335	4	Rajakarunanayake.in.	US-PGPUB; USPAT	OR	ON	2003/10/07 14:26
S336	114	(access adj2 server) and (dslam or grandslam)	US-PGPUB; USPAT	OR	ON	2003/10/07 16:46
S337	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 17:05
S338	41	(dslam or grandslam) and radius	US-PGPUB; USPAT	OR	ON	2003/10/07 17:09
S339	132	radius adj2 protocol	US-PGPUB; USPAT	OR	ON	2003/10/07 17:09
S340	17	(radius adj2 protocol) near3 request$3	US-PGPUB; USPAT	OR	ON	2003/10/07 17:34
S341	1	("6415313").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 17:46
S342	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 18:01
S343	1	("5115427").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/08 16:48
S344	2	(("5999732") or ("5848423")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/08 16:48
S345	2	(("6023474") or ("5999518")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 11:38
S346	1	("5671216").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 11:41

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S347	0	("wo9604729").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/03/23 11:41
S348	0	("ep774180").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/03/23 11:46
S349	2	(access$3 near4 server) and (pre$$assign$3 near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:48
S350	228	(access$3 near4 server) and (compar$3 near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:48
S351	36	(access$3 near4 server) and (compar$3 near4 circuit) and (identif$6 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:52
S352	2304	(path near4 information) and (identif$6 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:53
S353	20	(compar$3 near4 (path near4 information)) and (identif$6 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:13
S354	2	(("6023474") or ("5999518")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 13:55
S355	1	(compar$3 near4 (path near4 information)) and (pre$$assign$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:13
S356	283	(compar$3 near4 (path near4 information))	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:13
S357	5	(compar$3 near4 (path near4 information)) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:21
S358	53	(compar$3 near4 (path near4 information)) and (circuit near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:26
S359	39	(compar$3 near4 (path near4 information)) and (circuit near4 information) and (pre$$assign$3 or pre$$defin$3 or pre$$determin$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:22
S360	4150	((path near4 information)) and (circuit near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:27
S361	174	((path near4 information)) and (circuit near4 information) and (identif$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:27

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S362	44	((path near4 information)) and (circuit near4 information) and (identif$7 near4 subscriber) and (compar$3 near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:35
S363	10	(compar$3 near4 (path near4 information)) and (un$$authoriz$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:44
S364	19	(compar$3 near4 (path near4 information)) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:48
S365	1	"5963555".PN.	USPAT; USOCR	OR	ON	2005/03/23 14:47
S366	1	"5963552".PN.	USPAT; USOCR	OR	ON	2005/03/23 14:47
S367	733	((path near4 information)) and (identif$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:48
S368	160	((path near4 information)) and (identif$7 near4 subscriber) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:49
S369	137	((path near4 information)) and (identif$7 near4 subscriber) and (access$3 adj4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:49
S370	27	((path near4 information)) and (identif$7 near4 subscriber) and (access$3 adj4 server) and (connect$3 near4 second)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:05
S371	1	("6477565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 14:53
S372	432	(compar$3 near10 (path near4 information))	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:06
S373	22	(compar$3 near10 (path near4 information)) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:14
S374	107	(compar$3 near10 (path near4 information)) and "370"/$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:08
S375	12	(compar$3 near10 (path near4 information)) and "370"/$.ccls. and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:12
S376	31	(compar$3 near10 (path near4 information)) and "370"/$.ccls. and (subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:12

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S377	119	(compar$3 near10 (path near4 information)) and (user near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:22
S378	31	(compar$3 near10 (path near4 information)) and (user near4 information) and "370"/$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:21
S379	1	"6519936".PN.	USPAT; USOCR	OR	ON	2005/03/23 16:18
S380	1	"6513038".PN.	USPAT; USOCR	OR	ON	2005/03/23 16:18
S381	1	"6351745".PN.	USPAT; USOCR	OR	ON	2005/03/23 16:19
S382	8	(compar$3 near10 (path near4 information)) and (user near4 information) and "709"/$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:22
S383	2495	((path near4 information)) and (user near4 information) and security	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:23
S384	555	((path near4 information)) and (subscriber near4 information) and security	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:23
S385	108	((path near4 information)) and (subscriber near4 information) and security and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:24
S386	103	((path near4 information)) and (subscriber near4 information) and security and (virtual near4 circuit) and compar$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:30
S387	2445	((path near4 information)) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:30
S388	1345	((path near4 information)) and (access$3 near4 server) and (security)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:30
S389	243	((path near4 information)) and (access$3 near4 server) and (security) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:31
S390	48	((path near4 information)) and (access$3 near4 server) and (security) and (subscriber near4 information) and (virtual near3 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:34
S391	54	((path near4 information)) and (access$3 near4 server) and (establish$3 near4 connect$3) and (subscriber near4 information) and (virtual near3 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:35

EAST Search History

S392	60	((path near4 information)) and (access$3 near4 server) and (subscriber near4 information) and (virtual near3 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:35
S393	50	((path near4 information)) and (access$3 near4 server) and (subscriber near4 information) and (virtual near3 circuit) and compar$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:40
S394	0	(((path near4 information)) and (access$3 near4 server) and (subscriber near4 information)) near10 compar$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:41
S395	0	(access$3 near4 server)and ((((path near4 information)) and (subscriber near4 information)) near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:41
S396	1	((((path near4 information)) and (subscriber near4 information)) near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:42
S397	780	((((path near4 information)) or (subscriber near4 information)) near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:42
S398	81	((((path near4 information)) or (subscriber near4 information)) near10 compar$3) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:42
S399	0	((((path near4 information)) or (subscriber near4 information)) near10 compar$3) and (access$3 near4 server) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:43
S400	27	((((path near4 information)) or (subscriber near4 information)) near10 compar$3) and (access$3 near4 server) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 11:18
S401	1	("5828846").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/24 11:07
S402	210	((((path near4 information)) or (subscriber near4 information)) and (compar$3 near4 receiv$3)) and (access$3 near4 server) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 11:18
S403	26	((((path near4 information)) and (subscriber near4 information)) and (compar$3 near4 receiv$3)) and (access$3 near4 server) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 11:22

EAST Search History

S404	61	((((path near4 information)) and (subscriber near4 information)) and (compar$3 near4 receiv$3)) and (access$3 near4 (server or point)) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:02
S405	10	(((((vci or vpi) near4 information)) and (subscriber near4 information)) and (compar$3 near4 receiv$3)) and (access$3 near4 (server or point)) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:04
S406	52	((vci or vpi) near4 information) and (subscriber near4 information) and (secur$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:16
S407	11	((vci or vpi) near4 information) and (subscriber near4 information) and (restrict$3 near4 access$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:19
S408	2	((vci or vpi) near4 information) and (subscriber near4 information) and (secur$5 near4 access$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:19
S409	32	((vci or vpi) near4 information) and (subscriber near4 information) and (server near4 access$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:25
S410	338	weisman.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:25
S411	1	weisman.in. and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S412	0	weisman.in. and (vpi and vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S413	1	weismann.in. and (vpi and vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S414	0	weismann.in. and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S415	11	weismann.in. and (path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:27
S416	67	weismann.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:27
S417	1	weismann.in. and subscriber.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:27

EAST Search History

S418	1	weismann.in. and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:28
S419	1	weismann.in. and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:28
S420	70	(trusted adj3 information) and (path near3 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:40
S421	0	(trusted adj3 information) and (path near3 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 10:17
S422	35	(trusted adj3 information) and (path near3 information) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 10:18
S423	21	(trusted adj3 information) and (path near3 information) and (virtual) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 10:17
S424	3	(virtual near4 path) and (subscriber near4 information) and (compar$3 near5 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:42
S425	238	(virtual near4 path) and (subscriber near4 information) and (compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:43
S426	146	(virtual near4 path) and (subscriber near4 information) and (compar$3) and ((first or second) near5 network)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:43
S427	59	(virtual near4 path) and (subscriber near4 information) and (compar$3) and ((first or second) near5 network near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:58
S428	1	"20030039210".PN.	US-PGPUB	OR	ON	2005/03/25 14:52
S429	1	"6404769".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:52
S430	1	"6259699".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S431	1	"5937343".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S432	1	"5754529".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S433	1	"5130986".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S434	127	(virtual near4 path) and (subscriber near4 information) and (compar$3) and (establish$3 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:59

EAST Search History

S435	229	(virtual near4 path) and (subscriber near4 information) and (compar$3 naer4 path) and (establish$3 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:59
S436	0	(virtual near4 path) and (subscriber near4 information) and (compar$3 near4 path) and (establish$3 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:00
S437	21	(virtual near4 path) and (subscriber near4 information) and (compar$3) and (establish$3 near4 connect$3) and restrict$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:03
S438	25	(virtual near4 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:04
S439	0	(compar$3 near4 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:05
S440	0	(compar$3 near10 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:06
S441	111	(information near10 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:06
S442	97	(information near10 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission and compar$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:07
S443	0	(information near10 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission and (path near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:07
S444	6	(information near10 path) and (subscriber near4 information)and (establish$3 near4 connect$3) and restrict$3 and permission and (virtual near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:07
S445	442	(subscriber near4 (permission or restrict$3 or permit$4)) and (path) and (identif$7 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:38

EAST Search History

S446	3	(subscriber near4 (permission or restrict$3 or permit$4)) and (compar$3 near4 path) and (identif$7 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:41
S447	88	(subscriber near4 (permission or restrict$3 or permit$4)) and (information near4 path) and (identif$7 near4 connect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:42
S448	47	(subscriber near4 (permission or restrict$3 or permit$4)) and (information near4 path) and (identif$7 near4 connect$3) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:50
S449	0	(subscriber near4 (permission or restrict$3 or permit$4)) and (compar$3 near4 information near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:50
S450	15	(subscriber near4 (permission or restrict$3 or permit$4)) and (compar$3 near10 information near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:52
S451	299	(subscriber near4 (permission or restrict$3 or permit$4)) and (information near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:53
S452	115	(subscriber near4 (permission or restrict$3 or permit$4)) and (information near4 path) and compar$3 and ((first or second) near54 network)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:54
S453	32	(subscriber near4 (permission or restrict$3 or permit$4)) and (information near4 path) and compar$3 and ((first or second) near54 network) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:56
S454	36	(subscriber near4 (permission or restrict$3 or permit$4)) and (information near4 path) and compar$3 and (access$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:02
S455	759	(subscriber near4 (permission or restrict$3 or permit$4)) and (communication near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:02
S456	2	(subscriber near4 (permission or restrict$3 or permit$4)) and (communication near4 path) and (compar$3 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:04

EAST Search History

S457	1	(subscriber near4 (permission or restrict$3 or permit$4)) and (fraud near4 detect$3) and (compar$3 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:05
S458	1	(subscriber near4 (permission or restrict$3 or permit$4)) and (fraud) and (compar$3 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:05
S459	291	(subscriber near4 (permission or restrict$3 or permit$4)) and (fraud)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:05
S460	1	(subscriber near4 (permission or restrict$3 or permit$4)) and (fraud) and (path near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:06
S461	1	(subscriber near4 (permission or restrict$3 or permit$4)) and (pirat$3) and (path near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:07
S462	29	(subscriber near4 (permission or restrict$3 or permit$4)) and secur$6 and (path near10 compar$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:08
S463	5	(subscriber near4 (permission or restrict$3 or permit$4)) and (path near10 compar$3) and vpi and vci	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:08
S464	9	(subscriber near4 (permission or restrict$3 or permit$4)) and (path near10 compar$3) and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:43
S465	1	("6081263").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 13:49
S466	1	("6605122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 13:49
S467	2	(("5450599") or ("5461679")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 14:55
S468	3	(("5450599") or ("5461679") or ("4398176")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 15:32
S469	2	(("6697966") or ("6806590")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 15:36
S470	1	("6718418").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 15:36
S471	45	(subscriber near4 (permission or restrict$3 or permit$4)) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:55

EAST Search History

S472	0	(subscriber) and (compar$3 near10 path) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:55
S473	34	(subscriber) and (information near10 path) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:55
S474	15	(subscriber) and (information near10 path) and (radius near4 protocol) and compar$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:56
S475	31	(subscriber) and (information near10 path) and (radius near4 protocol) and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 09:01
S476	1	("6108708").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 09:09
S477	1	("6665305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 09:20
S478	0	("(accessnear4server)andsubscriber and(virtualnear4circuit)and(radiusnear4protocol)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 09:21
S479	14	(access near4 server) and subscriber and (virtual near4 circuit) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 09:31
S480	1	("6785228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 11:52
S481	1	("6456623").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 11:59
S482	1	("6785228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 15:43
S483	1	("6456623").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 16:47
S484	1	("6061650").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 17:52
S485	1	("6654814").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 18:01
S486	1	("6693649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 10:50

EAST Search History

S487	2	(("5450599") or ("4398176")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 15:13
S488	3	(("5450599") or ("4398176") or ("5461647")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 15:14
S489	3	(("5450599") or ("4398176") or ("5461679")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 15:14
S490	1	("6665305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/03 18:17
S491	1	("6785228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/04 10:00
S492	165	(virtual near4 path) and (subscriber) and un$$authoriz$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:38
S493	3	(compar$5 near4 virtual near4 path) and (subscriber) and un$$authoriz$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:39
S494	8	(virtual near4 path) and (subscriber) and un$$authoriz$6 and (verif$7 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:40
S495	29	(virtual near4 path) and (subscriber) and (verif$7 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:51
S496	23	(compar$6 near4 path) and (subscriber) and (verif$7 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:42
S497	41	(virtual near4 path) and (subscriber) and (verif$7 near4 connection)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:53
S498	16	(virtual near4 path) and (subscriber) and (verif$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:51
S499	17	(virtual near4 path) and (subscriber) and (verif$7 near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:48
S500	71	(path near4 information) and (subscriber) and (verif$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:01
S501	60	(path near4 information) and (subscriber) and (verif$7 near4 source) and compar$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:01

EAST Search History

S502	0	(path near4 information) and (subscriber) and (verif$7 near4 source) and (compar$6 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:01
S503	14	(path near4 information) and (subscriber) and (verif$7 near4 source) and (compar$6 near4 virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:11
S504	16	"4896313"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:12
S505	103	"4896319"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:41
S506	22	"4896319" and subscriber and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:13
S507	11	"4896319" and subscriber and verif$7	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:15
S508	43	"4896319" and (identif$7 near4 (user or subscriber))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:15
S509	24	"4896319" and (identif$7 near4 (user or subscriber)) and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:18
S510	32	"4896319" and (identif$7 near4 (user or subscriber)) and path	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:22
S511	43	"4896319" and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:25
S512	12	"4896319" and (path near4 information) and (verif$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:23
S513	13	"4896319" and (path near4 information) and compar$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:24
S514	40	"4896319" and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:26
S515	27	"4896319" and (authoriz$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:31
S516	119	"4958341"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:31

EAST Search History

S517	2	(("4958341") or ("4897874")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/04 13:31
S518	35	(virtual near4 path) and (verif$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:48
S519	247	(virtual near4 path) and (subscriber) and (identif$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:51
S520	17	(virtual near4 path) and (subscriber) and (identif$7 near4 source) and (compar$6 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:52
S521	62	(virtual near4 path) and (subscriber near4 information) and (identif$6 near4 end)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:05
S522	29	(verif$7 near4 source) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:17
S523	38	(verif$7 near4 terminal) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:22
S524	55	(identif$7 near4 subscriber) and (verif$6 near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:23
S525	1	(identif$7 near4 subscriber) and (verif$6 near4 circuit) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:24
S526	12	(identif$7 near4 subscriber) and (verif$6 near4 circuit) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:25
S527	5	(identif$7 near4 subscriber) and (verif$6 near4 terminal) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:26
S528	17	(identif$7 near4 subscriber) and (authoriz$6 near4 terminal) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:28
S529	2	(identif$7 near4 subscriber) and (compar$6 near5 path) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:29
S530	6	(identif$7 near4 subscriber) and (compar$6 near5 circuit) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:30
S531	34	(identif$7 near4 subscriber) and (check$3 near4 connection) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:32

EAST Search History

S532	8	(identif$7 near4 subscriber) and (check$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:33
S533	2	(verif$6 near4 subscriber) and (check$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:33
S534	39	(verif$6 near4 user) and (check$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:36
S535	4	(verif$6 near4 end) and (check$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:37
S536	37	(verif$6 near4 access$3) and (check$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:38
S537	70	(check$3 near4 source near4 address$3) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:38
S538	62	(check$3 near4 source near4 address$3) and (virtual near4 circuit) and compar$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:40
S539	67	(check$3 near4 source) and (virtual near4 circuit) and (prevent$3 near4 (access$3 or authoriz$6))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:43
S540	398	(check$3 near4 source near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:43
S541	0	(check$3 near4 source near4 circuit) and (compar$6 near5 (vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:44
S542	2	(check$3 near4 source near4 circuit) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:45
S543	8	(verif$7 near4 source near4 circuit) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:18
S544	29	(verif$7 near4 source) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:19
S545	75	(verif$7 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:19
S546	16	(verif$7 near4 source) and (virtual near4 circuit) and masquerad$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:22

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S547	23	(verif$7) and (virtual near4 circuit) and masquerad$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:24
S548	76	(verif$7) and (path near4 information) and masquerad$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:24
S549	0	(verif$7) and (path near4 information) and masquerad$3 and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:24
S550	50	(verif$7) and (path near4 information) and masquerad$3 and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:25
S551	17	(verif$7) and (path near4 information) and masquerad$3 and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:25
S552	33	(verif$7) and (circuit near4 information) and masquerad$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:26
S553	17	(virtual near4 circuit) and (prevent$3 near4 masquerad$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:39
S554	10	(pvc or svc) and (prevent$3 near4 masquerad$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:29
S555	9	(compar$6 near4 path) and masquerad$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:29
S556	411	(compar$6 near4 path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:30
S557	10	(compar$6 near4 path near4 information) and (check$3 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:31
S558	6	(compar$6 near4 path near4 information) and (verif$6 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:37
S559	0	(compar$6 near4 (vci or vpi) near4 information) and (verif$6 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:37
S560	20	(compar$6 near4 (vci or vpi) near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:38
S561	351	(compar$6 near4 (source near4 path))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 14:45
S562	1	"4764919".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:28

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S563	1	"4745593".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:29
S564	1	"4710613".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:31
S565	1	"4707827".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:31
S566	1	"4672533".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:32
S567	1	"4663754".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:33
S568	1	"4475192".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:33
S569	1	"6628769".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:33
S570	2	("0000006").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/05 14:46
S571	1	("6635305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/05 14:46
S572	1	("6665305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/05 14:46
S573	21	(virtual near4 circuit) and (verif$7 near4 source) and (configur$6 near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:47
S574	5	(virtual near4 circuit) and (verif$7 near4 source) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:48
S575	16	(virtual near4 circuit) and (verif$7 near4 source) and (masquerad$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:48
S576	14	(virtual near4 circuit) and (verif$7 near4 source) and (imposter)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:49
S577	75	(virtual near4 circuit) and (verif$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:53
S578	5	(virtual near4 circuit) and (verif$7 near4 source) and (software near4 updat$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:50
S579	1	(vpi or vci) and (verif$7 near4 source) and (quer$4 near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:05

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S580	12	"5825750"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:03
S581	0	(vpi or vci) and (verif$7 near4 source) and (intrusion)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:05
S582	181	(verif$7 near4 source) and (intrusion)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:05
S583	51	(verif$7 near4 source) and (intrusion) and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:06
S584	26	(verif$7 near4 source) and (intrusion) and (path near4 information) and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:06
S585	18	(verif$7 near4 path) and (detect$3 near4 intrusion)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:08
S586	8	(verif$7 near4 path) and (detect$3 near4 unauthoriz$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:08
S587	60	(verif$7 near4 source) and (detect$3 near4 unauthoriz$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:08
S588	0	(verif$7 near4 source) and (detect$3 near4 unauthoriz$6) and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:09
S589	24	(verif$7 near4 source) and (detect$3 near4 unauthoriz$6) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:10
S590	162	(verif$7 near4 subscriber) and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:10
S591	11	(verif$7 near4 subscriber) and (path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:18
S592	16	(check$3 near4 subscriber) and (path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:20
S593	92	(check$3 near4 source) and (path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:20
S594	37	(check$3 near4 source) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:25

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S595	15	(check$3 near4 path) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:28
S596	42	(verif$7 near4 user) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:29
S597	1	(verif$7 near4 port) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:30
S598	43	(verif$7 near4 port near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:35
S599	330	(check$3 near4 port near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:35
S600	4	(check$3 near4 port near4 source) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:39
S601	106	(check$3 near4 port near4 source) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:40
S602	78	(check$3 near4 port near4 source) and (virtual) and path	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:40
S603	23	(check$3 near4 port near4 source) and (virtual) and path and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:41
S604	32	(verif$6 near4 source near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:46
S605	3172	(verif$6 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:47
S606	3	(verif$6 near4 source) and (quer$4 near5 subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:48
S607	18	(verif$6 near4 source) and (quer$4 near5 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:52
S608	25	(verif$6 near4 source near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:05
S609	1153	(port near4 identity)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:05

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S610	10	(port near4 identity near4 verif$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:08
S611	21	(port near4 identity near4 authenticat$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:09
S612	467	(port near4 authenticat$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:10
S613	24	(port near4 authenticat$3) and (verif$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:11
S614	40	(source near4 authenticat$3) and (verif$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:11
S615	9	(virtual near4 circuit near4 authenticat$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:13
S616	321	(virtual near4 circuit) and (remot$3 near4 configur$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:13
S617	3	(virtual near4 circuit) and (remot$3 near4 configur$6) and (verif$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:14
S618	70	(virtual near4 circuit) and (remot$3 near4 configur$6) and (verif$7 near4 user)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:31
S619	1	("6,061,650").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/06 12:52
S620	1	("6525768").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/06 12:52
S621	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 17:11
S622	0	(path near4 information) and (vircuit near4 circuit) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:12
S623	0	(path) and (vircuit near4 circuit) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:11
S624	158	(path near4 information) and (virtual near4 circuit) and (access$3 near4 server)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:12

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S625	78	(path near4 information) and (virtual near4 circuit) and (access$3 near4 server) and (interfac$3 near4 information) and (user near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:13
S626	69	(path near4 information) and (virtual near4 circuit) and (access$3 near4 server) and (interfac$3 near4 information) and (user near4 information) and security	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:16
S627	540	(path adj3 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:16
S628	60	(path adj3 information) and (virtual near4 circuit) and (user near4 information) and (server near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:20
S629	5	(compar$5 near4 path adj3 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:21
S630	234	(compar$5 near4 path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:21
S631	6	(compar$5 near4 path adj3 information) and (vci or vpi)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:24
S632	113	(path adj3 information) and (compar$5 near4 source) and (security)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:25
S633	6	(path adj3 information) and (compar$5 near4 source) and (security) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:30
S634	11	(path adj3 information) and (compar$5 near4 source) and (authori$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:31
S635	53	(compar$5 near4 source) and (authori$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:50

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S636	0	(compar$5 near4 source near4 interfac$3) and (authori$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:32
S637	97	"5113499"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:47
S638	4	"5113499" and (compar$6 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:48
S639	22	"5113499" and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:48
S640	18	"5113499" and (virtual near4 circuit) and path	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:48
S641	4016	(compar$5 near4 source near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:51
S642	0	(compar$5 near4 source near4 (vpi or vci)) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:51
S643	5	(compar$5 near4 source near4 (vpi or vci))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S644	103	(compar$5 near4 source near4 (interfac$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S645	0	(compar$5 near4 source near4 (interfac$3)) and (vpi or vci) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S646	0	(compar$5 near4 source near4 (interfac$3)) and (vpi or vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S647	0	(compar$5 near4 source near4 (interfac$3)) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:53

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S648	236	(compar$5 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:54
S649	45	(compar$5 near4 source) and (virtual near4 circuit) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:11
S650	236	(compar$5 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:12
S651	20	(compar$5 near4 source) and (virtual near4 circuit) and (path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:13
S652	394	(compar$5 near4 source) and (path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:14
S653	13	(compar$5 near4 source) and (path adj3 information) and vpi and vci	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:16
S654	77	(compar$5 near4 source) and (path adj3 information) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:19
S655	0	(compar$5 near4 source) and (path adj3 information) and authoriz$6 and (vpi or vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:16
S656	16	(compar$5 near4 source) and (path near4 information near4 virtual)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:21
S657	2084	(determin$3 near4 path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:21
S658	106	(determin$3 near4 path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:39
S659	1	(determin$3 near4 path near4 information near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:21

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S660	8	(determin$3 near4 path near4 information) and (virtual near4 circuit) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:22
S661	8	(determin$3 near4 path near4 information) and (virtual near4 circuit) and (compar$3 near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:23
S662	200	(path near4 information) and (identif$5 near4 virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:39
S663	60	(path adj2 information) and (identif$5 near4 virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S664	1209	(path near4 information near4 table)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S665	106	(path near4 information near4 table) and (vpi or vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S666	82	(path near4 information near4 table) and (vpi and vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S667	13	(path near4 information near4 table) and (vpi and vci) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:44
S668	13	(path near4 information near4 table) and (vpi or vci) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:44
S669	14	(path near4 information near4 table) and (virtual near4 circuit) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:45
S670	83	(path near4 information near4 table) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:45
S671	9	(path near4 information near4 table) and (compar$3 near4 (vpi or vci))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:46

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S672	1	("5884327").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/23 13:11
S673	0	("(identif$6near4subscriber)and(compar$3near4source)and(pathnear4information)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/23 13:12
S674	5043506	(identif$6 near4 subscriber) and(compar$3 near4 source) and (path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:29
S675	6	(identif$6 near4 subscriber) and (compar$3 near4 source) and (path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:30
S676	7	(identif$6 near4 subscriber) and (compar$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:32
S677	32	(identif$6 near4 subscriber) and (compar$3 near4 source near4 address$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:37
S678	42	(identif$6 near4 subscriber) and (compar$3 near4 source) and security	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:37
S679	33	(identif$6 near4 subscriber) and (compar$3 near4 source) and security and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:40
S680	1	(virtual near4 circuit) and (pre$$assign$3) and (verif$7 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:41
S681	77	(virtual near4 circuit) and (verif$7 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:41
S682	29	(virtual near4 circuit) and (verif$7 near4 source) and subscriber and path	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:44
S683	12	(virtual near4 circuit) and (in$$coming near4 path) and (compar$3) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:46

EAST Search History

S68 4	186	(virtual near4 circuit) and (in$$coming near4 path)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:47
S68 5	6	(virtual near4 circuit) and (in$$coming near4 path) and (compar$3 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:47
S68 6	9	(virtual near4 circuit) and (in$$coming near4 path) and (verif$7 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:47
S68 7	10	(virtual near4 circuit) and (in$$coming near4 path) and authenticat$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:48
S68 8	13	(virtual near4 circuit) and (in$$coming near4 path) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:49
S68 9	110	(virtual near4 circuit) and (source near4 path) and authoriz$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:49
S69 0	7	(virtual near4 circuit) and (source near4 path) and authoriz$6 and (compar$3) and pre$$assign$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:52
S69 1	7	(virtual near4 circuit) and (source near4 path) and authoriz$6 and (compar$3 near4 address$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:54
S69 2	5	(virtual near4 circuit) and (source near4 path) and (verif$7 near4 subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:01
S69 3	0	(virtual near4 circuit) and (verif$7 near4 subscriber near4 path)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:01
S69 4	9	(verif$7 near4 subscriber near4 path)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:03
S69 5	62	(verif$7 near4 subscriber) and (path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:10

EAST Search History

S696	17	(verif$7 near4 subscriber near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:14
S697	109	(validat$3 near4 source near4 address$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:15
S698	18	(validat$3 near4 source near4 address$3) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:23
S699	7	(validat$3 near4 source near4 address$3) and (vci or vpi)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:27
S700	0	(validat$3 near4 source near4 (vci or vpi))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:28
S701	0	(validat$3 near4 source near4 (virtual near4 circuit))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:28
S702	46	(validat$3 near4 source near4 (address)) and authoriz$7	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:41
S703	17	(validat$3 near4 source near4 (address)) and authoriz$7 and atm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:28
S704	50	(validat$3 near4 source near4 (address)) and atm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:06
S705	5	(validat$3 near4 source near4 (address)) and (particular near4 subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:08
S706	44	(path near4 information) and (virtual near4 circuit near4 information) and (interfac$3 near4 information) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:12

EAST Search History

S707	0	(path near4 information) and (virtual near4 circuit near4 information) and (validat$3 near4 address$3) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:13
S708	34	(path near4 information) and (virtual near4 circuit) and (validat$3 near4 address$3) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:14
S709	37	(path near4 information) and (virtual near4 circuit) and (validat$3 near4 address$3) and (subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:14
S710	5	(path near4 information) and (virtual near4 circuit) and (validat$3 near4 source near4 address$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:15
S711	19	(path near4 information) and (validat$3 near4 source near4 address$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:53
S712	3	"6788649"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:53
S713	67	("4713806" | "5157390" | "5168515" | "5323452" | "5335268" | "5450480" | "5463682" | "5475817" | "5537466" | "5551035" | "5619557" | "5644629" | "5664102" | "5742668" | "5748896" | "5754639" | "5754939" | "5774668" | "5799153" | "5812533" | "5825865" | "5825869" | "5826268" | "5828747" | "5838970" | "5867498" | "5881134" | "5892946" | "5898839" | "5907607" | "5915008" | "5923892" | "5940616" | "5958016" | "5966434" | "5991811" | "5999965" | "6014700" | "6041109" | "6041117" | "6044142" | "6044264" | "6044368" | "6078586" | "6085030" | "6101616" | "6122510" | "6134530" | "6182109" | "6208856" | "6209018" | "6266406" | "6295353" | "6321323" | "6324275" | "6327355" | "6330326" | "6333931" | "6360266" | "6363411" | "6366657" | "6393481" | "6418461" | "6430600" | "6453038" | "6564270" | "6628769").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/23 15:54

EAST Search History

S714	1	("20030208546").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/23 18:53
S715	1	("5764899").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 09:44
S716	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 13:38
S717	3	(("5113499") or ("20050160289") or ("20010026553")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 09:50
S718	97	"5113499"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:50
S719	5	"5113499" and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:52
S720	33	"5113499" and (atm)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:54
S721	44	"5113499" and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:59
S722	75	"5113499" and security	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 10:21
S723	36	(validat$3 near4 circuit) and security and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 10:22
S724	1	("20020199002").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 14:02
S725	2	(("20020199002") or ("6356934")). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 14:49
S726	2	(("6445690") or ("6445691")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 14:57
S727	2	(("6519657") or ("6519634")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 16:49
S728	2	(compar$3 near4 virtual near4 circuit) and (pre$$assign$3 or pre$$stor$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 16:50

EAST Search History

S729	99	(compar$3 near4 virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:02
S730	16	(compar$3 near4 virtual near4 circuit) and authoriz$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 16:53
S731	12	(compar$3 near4 virtual near4 circuit) and security	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 16:54
S732	96	(compar$3 near4 vpi near4 vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:02
S733	8	(compar$3 near4 vpi near4 vci) and security	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:04
S734	17	(compar$3 near4 vpi near4 vci) and port and slot	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:20
S735	56	(compar$3 near4 vpi near4 vci) and in$coming	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:51
S736	6	(compar$3 near4 vpi near4 vci) and in$coming and (interfac$3 near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:22
S737	6	(compar$3 near4 vpi near4 vci) and (in$coming near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:23
S738	6	(compar$3 near4 vpi near4 vci) and in$coming and (pre$$assign$3 or pre$$stor$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:27
S739	9	(compar$3 near4 vpi near4 vci near4 in$$coming)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:53
S740	9	(compar$3 near4 (vpi or vci)) and (in$$coming near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:56
S741	41	(compar$3 near4 (vpi or vci)) and (in$$coming near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:56
S742	19	(compar$3 near4 (vpi or vci)) and (in$$coming near4 information) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:01
S743	119	(compar$3 near4 (vpi or vci)) and (in$$coming)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:02

EAST Search History

S744	113	(compar$3 near4 (vpi or vci)) and (in$$coming) and path	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:02
S745	0	(compar$3 near4 (vpi or vci)) and (in$$coming) and (subscriber near4 index$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:03
S746	14	(compar$3 near4 (vpi or vci)) and (in$$coming) and (interfac$3 near4 information) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:09
S747	24	(compar$3) and (in$$coming) and (pre$$assign$3 near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:14
S748	0	(compar$3 near4 pre$$assign$3) and (in$$coming near4 (vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:14
S749	0	(compar$3 near4 pre$$assign$3) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S750	151	(compar$3 near4 pre$$assign$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S751	0	(compar$3 near4 pre$$assign$3) and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S752	9	(in$$coming near4 (vpi or vci)) and pre$$assign	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S753	56	(in$$coming near4 (vpi or vci)) and pre$$assign$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:16
S754	31	(in$$coming near4 (vpi or vci)) and pre$$assign$3 and compar$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:20
S755	13	(compar$3 near4 (vpi or vci)) and pre$$assign$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:25
S756	1	(compar$3 near4 (path)) and pre$$assign$3 and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:25
S757	47	(compar$3 near4 (path)) and in$$coming and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 10:22
S758	1	("20030135581").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 11:00

EAST Search History

S759	1	("6789170").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 11:16
S760	13	(compar$3 near4 identif$6 near4 path) and in$$coming and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:28
S761	3	(compar$3 near4 in$$coming near4 path) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:29
S762	14	(compar$3 near4 path) and (in$$coming near4 (vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:32
S763	53	(compar$3 near4 in$$coming) and (path near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:56
S764	14	(compar$3 near4 in$$coming) and (path near4 (vci or vpi)) and pre$$assign$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:33
S765	1	(compar$3 near4 path) and (pre$$assign$3 near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:56
S766	9	(compar$3 near4 in$$coming) and (pre$$assign$3 near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:58
S767	15	(compar$3 near4 in$$coming) and (pre$$assign$3 and (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:00
S768	0	(validat$3 near4 in$$coming) and (pre$$assign$3 and (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:00
S769	0	(verif$7 near4 in$$coming) and (pre$$assign$3 and (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:01
S770	13	(verif$7 near4 in$$coming) and ((vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:08
S771	16	"5974045"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:54
S772	1	"5809012".PN.	USPAT; USOCR	OR	ON	2006/03/25 12:13
S773	1	"5799003".PN.	USPAT; USOCR	OR	ON	2006/03/25 12:13
S774	1	"5610913".PN.	USPAT; USOCR	OR	ON	2006/03/25 12:13

EAST Search History

S775	4	(("6785769") or ("6678791") or ("6799251") or ("6247056")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 12:56
S776	5	(("6785769") or ("6678791") or ("6799251") or ("6247056") or ("6789170")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 12:58
S777	187	(customiz$6 near4 cach$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:58
S778	135	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:22
S779	34	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit) and (path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:26
S780	12	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit) and (path near4 compar$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:25
S781	12	(access adj3 server) and (vpi or vci) and (atm) and (path near4 compar$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:26
S782	44	(access adj3 server) and (atm) and (path near4 compar$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:27
S783	18	(access adj3 server) and (atm) and (path near4 compar$6) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:27
S784	30	(access adj3 server) and (path near4 compar$6) and (virtual near4 circuit) and security	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:30
S785	31	(access adj3 server) and (path near4 compar$6) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:30

Terms used
access server subscriber path compare virtual circuit

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Relevance scale

1 A distributed UNIX system based on a virtual circuit switch

G. W.R. Luderer, H. Che, J. P. Haggerty, P. A. Kirslis, W. T. Marshall
December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**
Publisher: ACM Press

Full text available: pdf(801.12 KB) Additional Information: full citation, abstract, references, citings, index terms

The popular UNIXTM operating system provides time-sharing service on a single computer. This paper reports on the design and implementation of a distributed UNIX system. The new operating system consists of two components: the S-UNIX subsystem provides a complete UNIX process environment enhanced by access to remote files; the F-UNIX subsystem is specialized to offer remote file service. A system can be configured out of many computers which operate either under the S-U ...

2 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

3 Design and evaluation of a wide-area event notification service

August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3
Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based

systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

4 Balancing performance and flexibility with hardware support for network architectures

Ilija Hadžić, Jonathan M. Smith

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(719.03 KB) Additional Information: full citation, abstract, references, index terms

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

5 Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network (MCDN) system

Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(178.43 KB) Additional Information: full citation, abstract, references, index terms

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for any frequency-hopping microcell-based system, particularly those that follow the FCC part 15.247 rules [9] and operate in unlicensed spectrum. We also present throughput measurements as a function of velocity and describe a model to predict those numbers based upon the protocols implemented. The MCDN system is a ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

6 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(276.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

7 Trunking of TDM and narrowband services over IP Networks
James Aweya
January 2003 **International Journal of Network Management**, Volume 13 Issue 1
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(418.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &l ...

8 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

9 A survey of UNI signaling systems and protocols for ATM networks
Burkhard Stiller
April 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, citings, index terms

The main aspect covered by signaling systems and protocols for ATM networks concerns the possibility to manage, maintain, and control a user-driven communication between arbitrary ATM end-systems connected to an ATM network. The tasks and procedures defined for, e.g., setting-up an ATM connection, are often very different concerning the rrelevant specifications of various working bodies (such as ITU-T or ATM-Forum) or certain vendors, although the basis to be done for maintaining ATM connec ...

10 Communications networks for the force XXI digitized battlefield
Paul Sass
October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(745.29 KB) Additional Information: full citation, abstract, references, citings, index terms

In striving to meet the increasing demands for timely delivery of multimedia information to the warfighter of the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications networks to a flexible internetwork architecture based solidly on the underlying communications protocols and technology of the commercial Internet. The framework for this new digitized battlefield, as described in the DoD's Joint Technical Architecture (JTA), is taken from t ...

11 Comparison of network protocol and architecture for distributed virtual simulation environment

Bu-Sung Lee, Wen-Tong Cai, Stephen J. Turner, Jit-Beng Koh
July 2001 **ACM SIGOPS Operating Systems Review**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(688.63 KB) Additional Information: full citation, abstract, index terms

In any distributed virtual simulation environment, the underlying network architecture and its protocols play an important part in its performance. This paper describes the different underlying protocols used in the support of the RTI implementation in the Federated Simulations Development Kit (FDK). The communication FM and MCAST modules were modified to support different protocols. The performance of two different protocols: TCP and a new Lightweight Reliable Multicast, called Pseudo Reliable ...

Keywords: DIS, FDK, HLA, RTI, RTI-Kit, fast messages, light weight reliable multicast

12 Notable computer networks
John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10
Publisher: ACM Press
Full text available: pdf(4.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

13 Routing as a flow control strategy in an integrated circuit/packet switched communications network
Kenneth R. Hebert, Udo W. Pooch
December 1986 **Proceedings of the 18th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

This research addresses the analysis of an event-driven FORTRAN Simulation Model that simulates a special kind of Computer-Communication network. The network modeled has a circuit-switched communication subnet whose trunk lines carry both voice and data traffic simultaneously. This effort considers the viability of routing strategies as a mechanism for reducing congestion. The performance of seven alternative routing strategies are measured in terms of user-visible metrics. Based ...

14 ATM: retrospective on systems legacy: A retrospective view of ATM
Charles Kalmanek
November 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 5
Publisher: ACM Press
Full text available: pdf(222.98 KB) Additional Information: full citation, abstract, references, index terms

ATM was the focus of active research and significant investment in the early to mid 1990's. This paper discusses several visions for ATM prevalent at the time, and analyzes how ATM evolved during this period. The paper also considers the implications of this history for current connection-oriented technologies, such as optical transport networks and MPLS.

Keywords: ATM, MPLS, flow switching, transport networks

15 Topological optimization of an integrated circuit/packet-switched computer network
Mark J. Kiemele, Udo W. Pooch

January 1984 **Proceedings of the 16th conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, index terms

This paper presents a methodology which can be used to optimize the topology of an integrated circuit/packet-switched computer-communication network. This special kind of network possesses a circuit-switched backbone with various packet-switched local access networks feeding into the communications subnet. An iterative, heuristic approach is used to generate a sequence of suboptimal solutions in lieu of one optimal solution. Application of the methodology shows that it is a flexible tool th ...

16 TCP/IP performance with random loss and bidirectional congestion
T. V. Lakshman, Upamanyu Madhow, Bernhard Suter
October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5
Publisher: IEEE Press
Full text available: pdf(287.04 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: ADSL, TCP, buffer management, cable modems, scheduling

17 Design and modelling of internode: a mobile provider provisioned VPN
Francisco Barceló, Josep Paradells, Fofy Setaki, Monique Gibeaux
February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(237.48 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the design and architecture of a mobile Provider Provisioned VPN (PPVPN) together with a performance evaluation oriented model that allows first estimates of the VPN set-up delay to be computed. At the same time, some consequences of the discussion can be applied to the design of the VPN configuration parameters. Many different technologies and protocols are used: access is supplied through GPRS or WaveLANs, IP mobility is supported by Mobile IP, and the VPN is based on the I ...

Keywords: IPSec, VPN, mobile IP, mobile VPN, provider provisioned VPN

18 Voice over IP
Upkar Varshney, Andy Snow, Matt McGivern, Christi Howard
January 2002 **Communications of the ACM**, Volume 45 Issue 1
Publisher: ACM Press
Full text available: pdf(113.77 KB) html(34.89 KB) Additional Information: full citation, abstract, references, index terms

How can voice over the Internet claim a greater share of the worldwide phone market from the voice infrastructure dominated for more than 100 years by the public-switched telephone network?

19 Internetworking using switched multi-megabit data service in TCP/IP enviroments
David M. Piscitello, Michael Kramer
July 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 3
Publisher: ACM Press
Full text available: pdf(862.08 KB) Additional Information: full citation, abstract, index terms

TCP/IP based networks were among the earliest and most successful applications of Local Area Network technologies, and TCP/IP-based internets continue to be a testing ground for emerging high performance transmission technologies as well as the distributed processing applications they support. As distributed processing applications become increasingly available in the next decade, consumer demand for high performance transmission services will extend beyond the distance serviceable by LANs; user ...

20 Competitive advantage on the World Wide Web: a webmaster's guide

Merrill E. Warkentin
October 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(779.01 KB) Additional Information: full citation, abstract, index terms

As the importance of the World Wide Web continues to grow, firms are seeking innovative ways to leverage the technology for competitive advantage. Firms are implementing web-based systems for internal and external information dissemination and for digital interactivity, including commerce. This paper highlights some of these uses of the web and addresses managerial and technical considerations when initiating a web site project, both on the server side and client side of the web. The focus is on ...

Keywords: digital commerce, internet security, intranet, web design, web server

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Terms used
access server subscriber path compare virtual circuit

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Relevance scale

21 Beyond third generation telecommunications architectures: the convergence of internet technology and cellular telephony
Randy H. Katz
April 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(994.41 KB) Additional Information: full citation, citings

22 Algorithms and methodologies for new architectures: FlexPath NP: a network processor concept with application-driven flexible processing paths
Rainer Ohlendorf, Andreas Herkersdorf, Thomas Wild
September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05 , Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(261.77 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

In this paper, we present a new architectural concept for network processors called FlexPath NP. The central idea behind FlexPath NP is to systematically map network processor (NP) application sub-functions onto both SW programmable processor (CPU) resources and (re-)configurable HW building blocks, such that different packet flows are forwarded via different, optimized processing paths through the NP. Packets with well understood, relatively simple processing requirements may even bypass the ce ...

Keywords: IP networking, application-specific architectures, dynamically reconfigurable processors, hardware accelerators, network processors

23 A threaded/flow approach to reconfigurable distributed systems and service primitives architectures
L. F. Ludwig
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the**

ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

24 Data replicas in distributed information services

H. M. Gladney

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, index terms, review

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

25 Pandora - an experimental system for multimedia applications

Andy Hopper

April 1990 **ACM SIGOPS Operating Systems Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, citings

Pandora is a joint project between Olivetti Research Cambridge and the University of Cambridge Computer Laboratory. The project is investigating the use of multimedia workstations in a working environment with particular emphasis on digital video. It endeavours to place a camera on the desktop to make generation of multimedia documents as easy as producing text. We are aiming to produce a number of new applications as well as to provide insights into the way computer systems should be designed.T ...

26 Vision & challenges: A peer-to-peer approach to wireless LAN roaming

Elias C. Efstathiou, George C. Polyzos

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM Press

Full text available: pdf(279.70 KB) Additional Information: full citation, abstract, references, citings, index terms

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...

Keywords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

27 Reusable software components

Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4
Publisher: ACM Press
Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

28 A wireless broadband ad-hoc ATM local-area network

K. Y. Eng, M. J. Karol, M. Veeraraghavan, E. Ayanoglu, C. B. Woodworth, P. Pancha, R. A. Valenzuela
June 1995 **Wireless Networks**, Volume 1 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings

We describe the theory, design and ongoing prototyping of a wireless ATM LAN/PBX capable of supporting mobile users with multi-Mb/s access rates and multi-Gb/s aggregate capacities. Our proposed LAN consists of network nodes called Portable Base Stations (PBS) providing microcell coverage. The PBSs are designed to be low-cost, compact and high-speed and can be relocated conveniently. We employ a concept of ad-hoc networking in the layout of the PBS-to-PBS interconnection. That is, the PBSs ...

29 Comparison of signaling loads for PCS systems

Thomas F. La Porta, Malathi Veeraraghavan, Richard W. Buskens
December 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 6
Publisher: IEEE Press
Full text available: pdf(1.72 MB) Additional Information: full citation, references, citings, index terms

30 Transmission facilities for computer communications

A. G. Fraser, P. S. Henry
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Publisher: ACM Press
Full text available: pdf(855.61 KB) Additional Information: full citation, abstract, index terms

This paper presents a brief introduction to architectures and technologies that probably will be used for wide-area communications. It starts with a review of the structure of today's network and some aspects of the *digital transmission* systems that dominate modem networks. Then the status and trends in wide-area transmission technology are addressed, first for the *backbone network* and then for the *local access network*. Local access refers to the transmission systems which c ...

31 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore
October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: pdf(502.20 KB) Additional Information: full citation, abstract, references, citings, index terms

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they

process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

32 Integrating E-Commerce and Games

Nizami Cummins

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6

Publisher: Springer-Verlag

Full text available: pdf(98.96 KB) Additional Information: full citation, abstract, index terms

This paper investigates how many users of commercial interactive systems are not properly agents within the interactive narrative, largely due to the dynamics of branding in cyberspace. Parallels are drawn between the dynamic personalization of e-CRM engines and context aware computing systems. Several seminal games are discussed as examples of systems in which very different relationships exist between users and the system. Arguments are made for designing e-commerce interactive systems that in ...

Keywords: Agency, Brand, Context awareness, E-commerce, Games, Interaction design, Narrative, Simulation, User, e-CRM

33 Host groups: a multicast extension for datagram internetworks

David R. Cheriton, Stephen E. Deering

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

The extensive use of local networks is beginning to drive requirements for internetwork facilities that connect these local networks. In particular, the availability of multicast addressing in many local networks and its use by sophisticated distributed applications motivates providing multicast across internetworks. In this paper, we propose a model of service for multicast in an internetwork, describe how this service can be used, and describe aspects of its implementation, inc ...

34 Mobile computing in next generation wireless networks

Prathima Agrawal, David Famolari

August 1999 **Proceedings of the 3rd international workshop on Discrete algorithms and methods for mobile computing and communications**

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

Keywords: IMT-2000, cdma2000, mobile computing, wireless data

35 Summary of the 4th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)

G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd

April 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, index terms

36 A case study of synthesis for industrial-scale analog IP: redesign of the equalizer/filter frontend for an ADSL CODEC

Rodney Phelps, Michael J. Krasnicki, Rob A. Rutenbar, L. Richard Carley, James R. Hellums
June 2000 **Proceedings of the 37th conference on Design automation**
Publisher: ACM Press

Full text available: pdf(211.88 KB) Additional Information: full citation, abstract, references, citings, index terms

A persistent criticism of analog synthesis techniques is that they cannot cope with the complexity of realistic industrial designs, especially system-level designs. We show how recent advances in simulation-based synthesis can be augmented, via appropriate macromodeling, to attack complex analog blocks. To support this claim, we resynthesize from scratch, in several different styles, a complex equalizer/filter block from the frontend of a commercial ADSL CODEC, and verify by full si ...

37 Summary of the 4th international workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)

G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, index terms

This paper presents a summary of the fourth International Workshop on Network and Operating System Support for Digital Audio and Video held at Lancaster. The contents of each session (including panel and work in progress sessions) are described and major areas of controversy are highlighted. A complete bibliography of all papers presented is included.

38 The price of selfish routing

Marios Mavronicolas, Paul Spirakis
July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(233.77 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the problem of routing traffic through a congested network. We focus on the simplest case of a network consisting of m parallel links. We assume a collection of n network users, each employing a mixed strategy which is a probability distribution over links, to control the shipping of its own assigned traffic. Given a capacity for each link specifying the rate at wh ...

39 Technical papers: concurrency: Software model checking in practice: an industrial case study

Satish Chandra, Patrice Godefroid, Christopher Palm
May 2002 **Proceedings of the 24th International Conference on Software Engineering**
Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

We present an application of software model checking to the analysis of a large industrial software product: Lucent Technologies' CDMA call-processing library. This software is

deployed on thousands of base stations in wireless networks world-wide, where it sets up and manages millions of calls to and from mobile devices everyday. Our analysis of this software was carried out using VeriSoft, a tool developed at Bell Laboratories that implements model-checking algorithms for systematically testin ...

40 GIP: an infrastructure for mobile intranets development

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Publisher: ACM Press

Full text available: pdf(566.62 KB) Additional Information: full citation, abstract, references, citings, index terms

The GPRS and UMTS specifications define the procedures supporting the mobility and the data sessions of a mobile user moving within the area of the corresponding PLMNs. For the case, though, of mobile users working in group, using a PLMN infrastructure, the aforementioned networks foresee no special treatment. However, services tightly related to a specific geographic area, like for example security or surveillance services, could be implemented by a group of collaborating Mobile Nodes f ...

Keywords: GPRS, UMTS, mobile intranet

Terms used
access server subscriber path compare virtual circuit

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41 An integrated admission-degradation framework for optimizing real-time call mix in wireless cellular networks

Gergely Záruba, Imrich Chlamtac, Sajal K. Das

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available: pdf(789.35 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an integrated framework for selecting optimal call mixes (in a multimedia traffic scenario) by bandwidth degradation in a wireless cellular network, to maximize the revenue earned by the service provider. Each admitted call in our framework generates a revenue for the service provider based on the parameters of the call. The sum of the revenues generated by all admitted calls at a time is considered as the total revenue earned in a cell. By degradation, ...

Keywords: admission control, call degradation, cellular systems, framework

42 Mobility management for hierarchical wireless networks

Guangyu Pei, Mario Gerla

August 2001 **Mobile Networks and Applications**, Volume 6 Issue 4

Publisher:

Advances in high-speed networking
William Stallings
March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(163.21 KB) Additional Information: full citation, references, index terms

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Terms used **path information access server virtual circuit subscriber**

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1 Papers: Context-agile encryption for high speed communication networks

Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

2 New architectures: Loose source routing as a mechanism for traffic policies

Katerina Argyraki, David R. Cheriton

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Publisher: ACM Press

Full text available: pdf(135.80 KB) Additional Information: full citation, abstract, references, index terms

Internet packet delivery policies have been of concern since the earliest times of the Internet, as witnessed by the presence of the Type of Service (ToS) field in the IPv4 header. Efforts continue today with Differentiated Services (DiffServ) and Multiprotocol Label Switching (MPLS). We claim that these approaches have not succeeded because they require, either explicitly or subtly, a network-layer virtual circuit mechanism.In this paper, we describe how adding a form of Loose Source and Record ...

Keywords: filtering, loose source routing, quality of service, route control, traffic policies

3 An approach for interconnecting SNA and XNS Networks

Kenneth O. Zoline, William P. Lidinsky

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index

terms

Interest in computer internetworking has resulted from the proliferation of wide area and local area networks. The CCITT, DARPA/DoD, and ISO/ECMA internetworking models, which have become widely accepted for doing this, do not address the pragmatic problem of interconnecting computer networks that are based upon closed-system, vendor-proprietary network architectures. This paper presents an approach for interconnecting private data networks that are based upon IBM's System Network Architect ...

4 Notable abbreviations in telecommunications

Hans W. Barz
April 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 2
Publisher: ACM Press
Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, index terms

Two years ago I already published the first version of abbreviations - see [1]. Compared to the first edition the number of abbreviations has doubled.

5 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon
April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2
Publisher: IEEE Press
Full text available: pdf(154.32 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

6 A bibliography on performance issues ATM networks

I. Nikloaidis, Raif O. Onvural
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, citings, index terms

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

7 Design of inter-administrative domain routing protocols

L. Breslau, D. Estrin
August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4
Publisher: ACM Press
Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

Policy Routing (PR) is a new area of development that attempts to incorporate policy related constraints on inter-Administrative Domain (AD) communication into the route computation and forwarding of inter-AD packets. Proposals for inter-AD routing mechanisms are discussed in the context of a design space defined by three design parameters: location of routing decision (i.e., source or hop-by-hop), algorithm used (i.e.,

link state or distance vector), and expression of policy in ...

8 Session A: Routing: On the impact of alternate path routing for load balancing in mobile ad hoc networks

Marc R. Pearlman, Zygmunt J. Haas, Peter Sholander, Siamak S. Tabrizi

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

Publisher: IEEE Press

Full text available: pdf(600.19 KB) Additional Information: full citation, abstract, references, citings

Alternate path routing (APR) can provide load balancing and route failure protection by distributing traffic among a set of diverse paths. These benefits make APR appear to be an ideal candidate for the bandwidth limited and mobile ad-hoc networks. However, we find that APR's potential is not fully realized in ad-hoc networks because of route coupling resulting from the geographic proximity of candidate paths between common endpoints. In multiple channel networks, coupling occurs when paths shar ...

9 Multilink PPP

George E. Conant

September 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(21.14 KB) Additional Information: full citation, abstract, index terms

One Big Virtual WAN Pipe: MLPPP gives network managers the power to deliver WAN bandwidth on demand using an array of services

10 Fast restoration of real-time communication service from component failures in multi-hop networks

Seungjae Han, Kang G. Shin

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terms

For many applications it is important to provide communication services with guaranteed timeliness and fault-tolerance at an acceptable level of overhead. In this paper, we present a scheme for restoring real-time channels, each with guaranteed timeliness, from component failures in multi-hop networks. To ensure fast/guaranteed recovery, *backup channels* are set up a *priori* in addition to each *primary channel*. That is, a *dependable real-time connection* consists of a pr ...

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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☐ 1. **Providing Multiple-Channel Communication Using the Experimental Digital Switch**
Gordon, R.;
Communications, IEEE Transactions on [legacy, pre - 1988]
Volume 30, Issue 6, Jun 1982 Page(s):1409 - 1416
AbstractPlus | Full Text: PDF(840 KB) IEEE JNL
Rights and Permissions

☐ 2. **On the implementation of adaptive electronic hybrid for digital subscriber loops**
Wei, C.-H.; Kuo, N.-A.;
Circuits and Systems, IEEE Transactions on
Volume 35, Issue 8, Aug. 1988 Page(s):1024 - 1027
Digital Object Identifier 10.1109/31.1850
AbstractPlus | Full Text: PDF(332 KB) IEEE JNL
Rights and Permissions

☐ 3. **Deployment of ATM subscriber line systems**
Tusoboi, T.; Maeda, Y.; Hayashi, K.; Kikuchi, K.;
Selected Areas in Communications, IEEE Journal on
Volume 10, Issue 9, Dec. 1992 Page(s):1448 - 1458
Digital Object Identifier 10.1109/49.184875
AbstractPlus | Full Text: PDF(780 KB) IEEE JNL
Rights and Permissions

☐ 4. **Full-duplex fast initializing digital subscriber loop echo cancellers**
Xixian Chen; Weiping Li;
Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactions on [se
Circuits and Systems II: Express Briefs, IEEE Transactions on]
Volume 41, Issue 2, Feb. 1994 Page(s):99 - 104
Digital Object Identifier 10.1109/82.281841
AbstractPlus | Full Text: PDF(476 KB) IEEE JNL
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☐ 5. **A 0.5 µm CMOS ADSL analog front-end IC**
Cornil, J.P.; Chang, Z.Y.; Louagie, F.; Overmeire, W.; Verfaille, J.;
Solid-State Circuits Conference, 1999. Digest of Technical Papers. ISSCC. 1999 IEEE International
15-17 Feb. 1999 Page(s):238 - 239
Digital Object Identifier 10.1109/ISSCC.1999.759209

AbstractPlus | Full Text: PDF(272 KB) IEEE CNF
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6. **Novel 1.3/1.55 /spl mu/m dual-wavelength receiver having embedded fiber circuit f optical subscriber systems**
Uno, T.; Tohmon, G.; Matsui, Y.;
Optical Fiber Communications, 1996. OFC '96
25 Feb.-1 March 1996 Page(s):54 - 55
Digital Object Identifier 10.1109/OFC.1996.907636
AbstractPlus | Full Text: PDF(204 KB) IEEE CNF
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7. **A four-channel digital signal processor in 1.2-µm CMOS with on-chip D/A and A/D conversion serving four speech channels in a new-generation subscriber line circ**
Haspeslagh, D.; Sevenhans, J.; Delarbre, A.; Kiss, L.; Moerman, E.;
Solid-State Circuits, IEEE Journal of
Volume 26, Issue 7, July 1991 Page(s):1038 - 1046
Digital Object Identifier 10.1109/4.92024
AbstractPlus | Full Text: PDF(584 KB) IEEE JNL
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8. **Class-AB high-swing CMOS power amplifier**
Mistlberger, F.; Koch, R.;
Solid-State Circuits, IEEE Journal of
Volume 27, Issue 7, Jul 1992 Page(s):1089 - 1092
Digital Object Identifier 10.1109/4.142606
AbstractPlus | Full Text: PDF(476 KB) IEEE JNL
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9. **A multi-class routing algorithm based on QoS fluctuation function**
Hongfei Liu; Jiuchuan Hu; Hongke Zhang; Jianbo Zhang;
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1-25

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» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1-25

Results for "((path<in>metadata) <and> (circuit<in>metadata))<and> (server<in&g..." e-mail printer
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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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ATM (Asynchronous Transfer Mode) in Wide and Local Area Environments, IEE Colloqu (Digest No.1994/118)
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A user-friendly method that allows client computers to **access server** ... Relative URLs may only specify directory **path information** along with a file name. ...
www.nisivocciaconsulting.com/tech_glossary.htm - 366k - Cached - Similar pages

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... In The Sky PIU **Path Information** Unit PIU Plug-In Unit PIWG Performance Issues ... SVC Supervisor Call SVC Switched **Virtual Circuit** SVC Switched Virtual ...
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File Format: PDF/Adobe Acrobat - View as HTML
Access Server (NAS/BAS), the Digital **Subscriber** Line Multiplexers (DSLAMs), ... (Switched **Virtual Circuit**). A PVC is established statically by the network ...
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Displays permanent **virtual circuit** statistics for Frame Relay or MLFR. interfaces. ... Displays **path information** for the specified BGP neighbor. Syntax: ...
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Cisco Management Information Base (MIB) User Quick Reference ...
When the row represents a permanent **virtual circuit** (PVC), then these two ... section are used to manage modems in the Cisco AS5200 universal **access server**. ...
www.cisco.com/en/US/products/sw/iosswrel/ps1824/products_mib_quick_reference_chapter09186a0080080e6b.html - 720k - Cached - Similar pages

CCDP: Cisco Internetwork Design Study Guide:Glossary
After CHAP is performed, the router or **access server** determines whether a given user is ... **Compare** with: control distribute VCC and control direct VCC. ...
www.unix.org.ua/cisco/CCNP-CCDP/CID-Sybex/glossary.html - 138k - Supplemental Result - Cached - Similar pages

[PDF] 640-861 (DESGN) Version 15.0
File Format: PDF/Adobe Acrobat - View as HTML
C. Order and install a remove **access server** in the prototype lab. ... Which type of WAN **virtual circuit** is created on demand and terminated when ...
books.rackhub.com/download/VGVzdEtpbmcgNjQwLTg2MSBFZHQxNS5wZGY= -

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Digital **Subscriber** Line (DSL) ... Transport-layer functions typically include flow control, multiplexing, **virtual circuit**. management, and error checking ...
www.netadvanced.com/docs/Internetworking_Technology_Overview.pdf - Supplemental Result - Similar pages

Multiplex communications patents 200605
A broadband **access server** for holding user channels by PPP and ... Atm permanent **virtual circuit** and layer 3 auto-configuration for digital **subscriber** line ...
www.freshpatents.com/Multiplex-communications-dt200605ntc370.php - 301k - Cached - Similar pages

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vcd—**Virtual circuit** descriptor that is an identifier for the VC in other ... **subscriber** disconnect command and the RADIUS dynamic-request server. feature. ...
www.juniper.net/techpubs/software/erx/junose73/bookpdfs/swcmdref-n-z.pdf - Similar pages

Cisco Management Information Base (MIB) User Quick Reference ...
When the row represents a permanent **virtual circuit** (PVC), then these two ... section are used to manage modems in the Cisco AS5200 universal **access server**. ...
www.cisco.com/en/US/products/sw/iosswrel/ps1824/products_mib_quick_reference_chapter09186a0080080e6b.html - 720k - Cached - Similar pages

CCDP: Cisco Internetwork Design Study Guide:Glossary
After CHAP is performed, the router or **access server** determines whether a given user is ... **Compare** with: control distribute VCC and control direct VCC. ...
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[PDF] Promoting African Research and Education Networking A Study ...
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research and training centres and other **subscribers**, and provide them ... and the backbone on which the **virtual circuit** is configured. As part of its ...
www.connectivityafrica.org/HTML/PAREN_Report_final.pdf - Similar pages

[PDF] 640-861 (DESGN) Version 15.0
File Format: PDF/Adobe Acrobat - View as HTML
C. Order and install a remove **access server** in the prototype lab. ... Which type of WAN **virtual circuit** is created on demand and terminated when ...
books.rackhub.com/download/VGVzdEtpbmcgNjQwLTg2MSBFZHQxNS5wZGY= - Similar pages

[PDF] Internetworking Technology Overview
File Format: PDF/Adobe Acrobat - View as HTML
Digital **Subscriber** Line (DSL) ... recall is simplified through the use of **comparison** operations. Ireland, for example, in a street address ...
www.netadvanced.com/docs/Internetworking_Technology_Overview.pdf - Supplemental Result - Similar pages

Multiplex communications patents 200605
A broadband **access server** for holding user channels by PPP and ... Atm permanent **virtual circuit** and layer 3 auto-configuration for digital **subscriber** line ...
www.freshpatents.com/Multiplex-communications-dt200605ntc370.php - 301k - Cached - Similar pages

Multiplex communications patents 200601
Selected messages generated by a **subscriber** unit that would otherwise be ... The **virtual circuit** includes a first end connected to a first router and a ...
www.freshpatents.com/Multiplex-communications-dt200601ntc370.php - 301k - Cached - Similar pages

[DOC] CCNA (Cisco Certified Network Associate) Certification Exam Objectives
File Format: Microsoft Word - View as HTML
A Frame Relay **virtual circuit** is a logical connection created between two data ... NTs connect the four-wire **subscriber** wiring to two-wire local loops. ...
www.angelfire.com/ny5/bleecker/BIGSTUDY.DOC - Supplemental Result - Similar pages

[DOC] PREFACE
File Format: Microsoft Word - View as HTML
... set of VPCs have to be established for conveying the user **path information** ... importance of these problems and to **compare** them to other factors like, ...
www.eurescom.de/~pub-deliverables/p300-series/P302/FINAL/VOL01.DOC - Supplemental Result - Similar pages

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Web Results **21** - **30** of about **116** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.1**

Cross-Platform Release Notes for Cisco IOS Release 12.3, Part 6 ...
Symptoms: A Cisco **Access server** that terminates virtual-profile calls with ... Symptoms: When a Cisco router reloads, the ATM permanent **virtual circuit** ...
www.cisco.com/en/US/products/sw/iosswrel/ps5187/prod_release_note09186a00803704f4.html - Similar pages

Abkürzungsliste ABKLEX (HTML-Format)
... over TCP/IP: CMPS **Compare** Word String: CMS Code/Connection Management System, ... DigitalSignature Standard, Digital **Subscriber** Signalling,Directory and ...
wumisa.fh-augsburg.de/links/AbkLex/abklex.html - 240k - Supplemental Result - Cached - Similar pages

1 These indices were prepared by Irwin A Danto Computer Science ...
... universities were chosen for the **comparison** and a questionnaire appendix ... their immediate products are linear polymers The **comparison** and analysis of ...
physjob.nudl.org/~kevin/classd/exemplar.acm-corr - 250k - Supplemental Result - Cached - Similar pages

[PDF] The Ultimate Computer Acronyms Archive
File Format: PDF/Adobe Acrobat - View as HTML
ADSL: Asymmetric Digital **Subscriber** Line ... BDSL: Broadband Digital **Subscriber** Line. (Communication). BE: Below or Equal ...
www.saviours.net/IBsTips/IBDownLoads/acronym.pdf - Supplemental Result - Similar pages

Abkürzungen
Asymmetric Digital **Subscriber** Line [technology] (BELLCORE, AT&T, DSL, ... Intel) Vibrant Colour Quality (Matrox) **Virtual Circuit** System Virtual Channel ...
www.chaho.de/menu/begriffe/abr.htm - 490k - Cached - Similar pages

[PDF] The Ultimate Computer Acronyms Archive
File Format: PDF/Adobe Acrobat
Identifies the Permanent **Virtual Circuit** (PVC) connections ... The number used to call a mobile **subscriber**. An MSISDN. consists of a country code, ...
www.acronyms.ch/files/Acronyms.Letter.Simplex.pdf - Similar pages

[PDF] The Ultimate Computer Acronyms Archive
File Format: PDF/Adobe Acrobat - View as HTML
ADSL: Asymmetric Digital **Subscriber** Line ... BDSL: Broadband Digital **Subscriber** Line. (Communication). BE: Below or Equal. Page 13 of 160. www.acronyms.ch ...
www.cherokee-education.net/acronyms.pdf - Supplemental Result - Similar pages

[PS] V.E.R.A.
File Format: Adobe PostScript
Permanent **Virtual Circuit** / Channel / Connection (ATM) ... Very high data / bit rate Digital **Subscriber** Line (DSL). VDT. Video Display Terminal ...
www.sunsite.ualberta.ca/Documentation/Gnu/vera-1.6/ps/vera.ps.gz - Similar pages

V.E.R.A. Suchergebnisse
ADSL Asymmetric Digital **Subscriber** Loop [modulation]. ADSP Advanced Digital Signal Processor ... PVC Permanent **Virtual Circuit** / Channel / Connection (ATM) ...

cgi.snafu.de/ohei/user-cgi-bin/veraresp.cgi?
Suchoption=Akronym;Weitere+Option=wide;Anfrage=.*.*.* - Similar pages

Current Internet-Drafts This summary sheet provides a short ...
"Diameter Network **Access Server** Application", Pat Calhoun, Glen Zorn, David Spence, ...
compare and contrast the Generalized Multi-Protocol Label Switching ...
ftp.tpnet.pl/vol/d1/ftp.rs.internic.net/internet-drafts/1id-abstracts.txt - 250k - Supplemental Result - Cached - Similar pages

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Web Results **31** - **40** of about **116** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.1**

International Information Retrieval Guild <=- The Hackers Acronym ...
... ADS/O Application Development System/On-Line ADSF Automatic Directional Solidification Furnace ADSL Asymmetrical Digital **Subscriber** Loop ADSP Apple Data ...
www.textfiles.com/magazines/PHANTASY/iirg-acronyms-v12.txt - 250k - Supplemental Result - Cached - Similar pages

[PDF] NETWORK TECHNOLOGIES AND APPLICATIONS
File Format: PDF/Adobe Acrobat
A **virtual circuit** is a logical circuit created within a shared network between ... **Access Server**: An **access server** acts as a concentration point for dial-in ...
www.bilmuh.gyte.edu.tr/~ispinar/BIL571/nettekuyg1-5.pdf - Similar pages

Current Internet-Drafts This summary sheet provides an index of ...
... "Diameter Network **Access Server** Application", Pat Calhoun, Glen Zorn, ... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ...
ftp.shlink.de/dokumente/internet-drafts/1id-index.txt - 250k - Supplemental Result - Cached - Similar pages

[PDF] World No1 Cert Guides
File Format: PDF/Adobe Acrobat
Which type of WAN **virtual circuit** is created on demand and terminated when ... C. Order and install a remove **access server** in the prototype lab. ...
books.rackhub.com/download/RnJhdm8gQ2lzY28gNjQwLTg2MSB2Mi4wLnBkZg== - Similar pages

[PDF] TEAMFLY
File Format: PDF/Adobe Acrobat - View as HTML
Chapter 10 **Subscriber** to Provider, and **Subscriber** to **Subscriber**. Edge: IP ... **comparison** with data networks, for all practical purposes they have always ...
ebooks.ee.itb.ac.id/Networking/Wiley%20-%20Building%20Service%20Provider%20Networks.pdf - Supplemental Result - Similar pages

NetX.ch - Lexikon - Suche- [Translate this page]
90%, **Subscriber** Identification Module (Mobile Systems) (SIM) ... 90%, Telephone **Access Server** (TAS). 90%, Turbo Assembler [Borland] (TASM) ...
www.netx.ch/lexikon/suche.asp?str= - 829k - Cached - Similar pages

// // /////// // //// (Anti Thief)
ADSL Asymmetrical Digital **Subscriber** Loop ... ASM Analog **Subscriber** Module ASM Assembler ASM Assembler Language File ASM Assembly ASM Association of Systems ...
thief.co.za/i/textfile/magazines/phantasy/iirg-acronyms-v12.asp - 250k - Supplemental Result - Cached - Similar pages

[PDF] Cisco Router Configuration, Second Edition
File Format: PDF/Adobe Acrobat
When you receive your router or **access server**, all the ... subinterfaces are used when a single **virtual circuit** connects one router to another. Think of ...
www.ciscopress.com/content/downloads/cisco/1578702410.pdf - Similar pages

Cisco 1.3.6.1.4.1.9 SNMP MIB

This MIB module describes IDSL (ISDN Digital Line **Subscriber**) line interfaces. ... from either CISCO A - Network **Access Server** (NAS)/ Local Access ...
www.assure24.com/assure24/snmp-mib/private/Cisco/ - 333k - Cached - Similar pages

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... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ... Nested Tunnels Optimization using Nested **Path Information**", Jongkeun Na, ...
www3.ietf.org/proceedings/04mar/I-D/1id-index.txt - 319k - Cached - Similar pages

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Web Results **41 - 50** of about **116** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.1**

Current Internet-Drafts This summary sheet provides an index of ...
... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ... <draft-klensin-name-munging-01.txt> "Soft Permanent **Virtual Circuit** ...
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hwa hn21 txt
His NTBugTraq mailing list has 25000 **subscribers**, and his Web site gets 2 ... for PPTP in its Routing and Remote **Access Server** for Windows NT Server 4.0. ...
www.morehouse.org/hin/uberzines/HWA/HWA-hn21.txt - 398k - Cached - Similar pages

Internet Drafts Abstracts Index
Which **subscriber**? As the list grows, this question becomes more and more difficult to ... associated with an established Permanent **Virtual Circuit** (PVC), ...
hegel.ittc.ku.edu/topics/internet/internet-drafts/index-long.html - Similar pages

[PDF] About This Manual
File Format: PDF/Adobe Acrobat
subscriber, and as much as 640 kbps more in both directions. ... point-to-point network if each **virtual circuit** is defined as a separate logical subnet. ...
www.ssuet.edu.pk/~amkhan/cisco/(ebook%20pdf)%20-%20Cisco-CCIE-Fundamentals-Network-Design.pdf - Similar pages

> [PDF] Internet Routing Architectures, Second Edition.doc
> File Format: PDF/Adobe Acrobat
> This **path information** provides a mechanism that allows routing loops to ... **virtual circuit** doesn't exchange keepalive messages with the remote router. This ...
> www.ssuet.edu.pk/~amkhan/cisco/Cisco%20Press%20-%20Internet%20Routing%20Architectures,%20Second%20Edition.pdf - Similar pages

[PDF] ERX Command Reference Guide
File Format: PDF/Adobe Acrobat
subinterface on the router or **access server**. The DLCI number identifies a. **virtual circuit**. The no version removes this assignment. Syntax: ...
www.m40.net/techpubs/software/erx/erx410/bookpdfs/swcmdref.pdf - Similar pages

@TECHREPORT{Ball9211:Core, AUTHOR="Anthony Ballardie and Paul ...
However, the concept of a Network **Access Server** has grown up over the years ... **subscriber** and equipment information, given a telephone number as input. ...
www.cs.columbia.edu/~hgs/bib/i-d.bib - Similar pages

> @TECHREPORT{Borm9705:Providing, AUTHOR="Bormann, C.", TITLE ...
> It also supports different types of **comparison** operators, so services can use SNQP with ... associated with an established Permanent **Virtual Circuit** (PVC), ...
> www.cs.columbia.edu/~hgs/bib/i-d-history.bib - 977k - Cached - Similar pages

[PDF] PortMaster Command Line Reference
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This command enables the multiple **subscriber** network (MSN) feature for countries ... This command displays BGP **path information** learned by the PortMaster. ...
www.pimpworks.org/livingston/command.pdf - Similar pages

[PDF] *:96 Internet application layer protocols and standards
File Format: PDF/Adobe Acrobat
A transport layer **virtual circuit** established between two programs ... destination server in the Request-URI without any **path information**. ...
dsv.su.se/jpalme/internet-course/compendium-2.pdf - Similar pages

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